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APRIL 1906

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Bulletin
OF
The University of Rochester



CATALOGUE 1905-1906

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Bulletin of The University of Rochester

Issued Quarterly, April, July, October and January.

The Bulletin includes in its issues:

1. The University Catalogue.
2. The Reports of the President and Treasurer.
3. Announcements.
4. Register of Alumni.

FIFTY-SIXTH

Annual Catalogue

OF

The University of Rochester

A COLLEGE OF LIBERAL ARTS



1905-1906

Organization

The University of Rochester opened its doors for students in the autumn of 1850, and gave instruction in that year to seventy-one young men by means of a faculty of eight professors and instructors. Its first class of ten men was graduated in July, 1851. The idea of establishing a college in Rochester originated as early as 1847, when many friends of Christian education among the Baptists of the State of New York expressed a conviction that such an institution should be established by that body in this center of a large and growing population. The project was emphatically endorsed in the same year by citizens of Rochester, and financial assistance was pledged to it by leading men irrespective of creed. It was not until January 31, 1850, however, that plans were sufficiently perfect to secure from the Regents of the University of the State of New York a provisional charter. On compliance with certain conditions named in this provisional charter, the Regents, on February 14, 1851, granted the permanent charter under which the college is at present organized. This charter is in all respects similar to the old charter of Columbia College in the city of New York, and invests the corporation "with all the privileges and powers conceded to any college in this state, pursuant to the provisions of the sixth section of the statute entitled 'An Act relative to the University,' passed April 5, 1813."

The name adopted by the founders and incorporated in the charter is *The University of Rochester*. This name was adopted with appreciation of the large significance which attaches to it, and at the outset the founders organized what

they termed the Collegiate Department of The University of Rochester. This is the only department of work which the institution has undertaken, and this catalogue therefore announces only the work of a College of Liberal Arts. The University has not yet organized a graduate faculty, nor does it offer courses for the degree of doctor of philosophy. The master's degree is granted in recognition of specific work done under the direction of the Faculty, tested by a thesis and an examination.

For the first fifty years of its life The University of Rochester was a college for young men. In 1900 the Trustees admitted women to the classes "on the same terms and conditions as men," subscriptions to the amount of \$50,000 having been obtained by a committee of Rochester women to secure this end. All the opportunities and privileges of instruction in class-room, lecture, and laboratory are open to the women equally with the men. It is the purpose of the Trustees to maintain for young men all the advantages which were offered them prior to 1900, while extending its ministries to a new class of students, for whom it will aim to secure the fullest opportunity for development of their own interests in connection with the educational privileges they share in common with the men.

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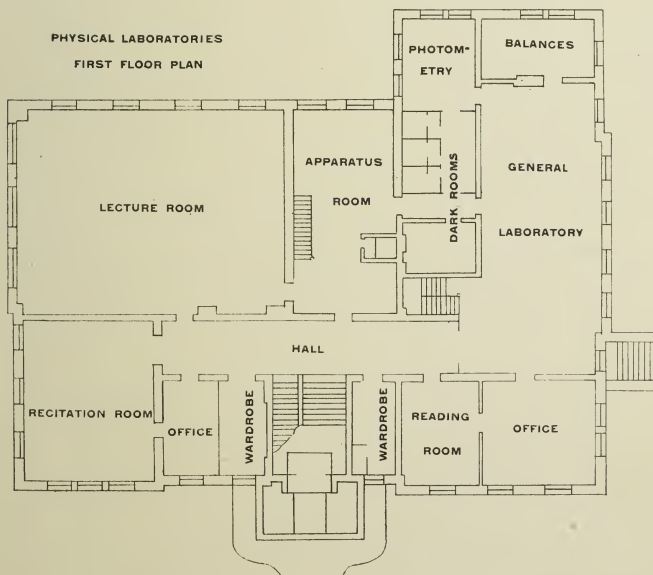
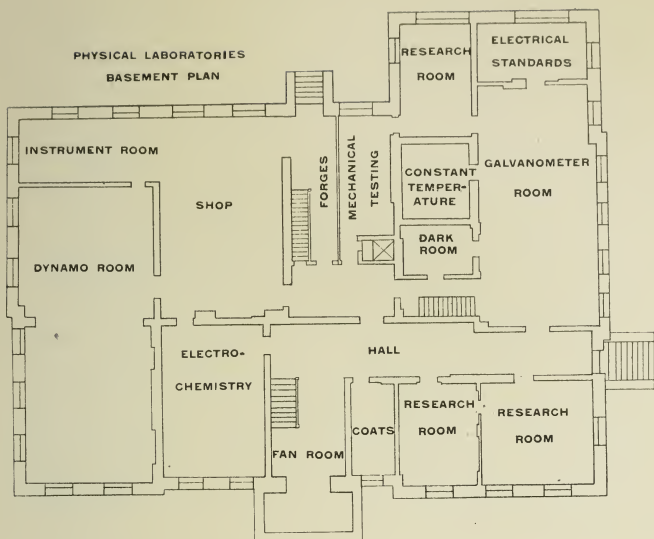
The Library

Assistant Librarian,

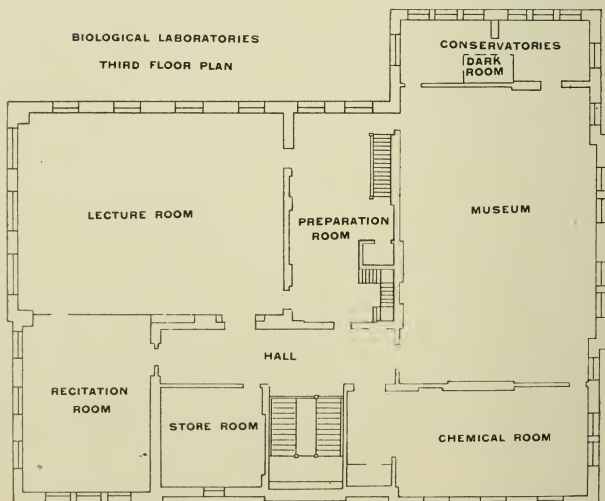
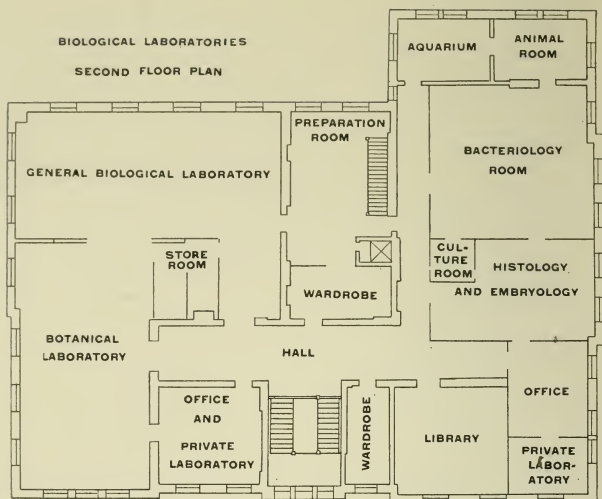
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THE EASTMAN LABORATORIES



THE EASTMAN LABORATORIES

Equipment

THE BUILDINGS AND GROUNDS

The Campus. The University occupies a campus of twenty-four acres, situated in one of the most beautiful parts of the city, on the line of an electric railway connecting with other lines radiating in every direction. The campus is adorned by a heroic bronze statue of Dr. Martin Brewer Anderson, the first president of the University. This statue is the work of Mr. Guernsey Mitchell of Paris, who was formerly a resident of Rochester, and a friend and admirer of Dr. Anderson. The statue with its granite pedestal was given to the University in 1905, having been erected at a cost of \$12,642 contributed for the purpose by many citizens and alumni, as an expression of regard for Dr. Anderson. The grounds constitute a beautiful private park, affording ample accommodations for every kind of field sports.

Anderson Hall, the oldest of the buildings, was completed in 1861; in it are the chapel, lecture rooms, and professors' offices.

Sibley Hall, erected in 1874 by Hiram Sibley, contains the library, the museums, and the geological lecture room and laboratory.

The Reynolds Memorial Laboratory was built in 1886 for the department of Chemistry by Mortimer F. Reynolds as a memorial to his brother, William A. Reynolds, a Trustee of the University.

The Alumni Gymnasium was opened for use in 1900; it is fully equipped with apparatus and baths, including a

swimming pool, furnishing, thus, every facility for physical training.

Central Heating Station. All of the buildings are heated from a central heating station. This equipment was installed in the summer of 1904 at a cost of about \$29,000.

The Eastman Laboratories for physics and biology were erected in 1904-5 through the munificence of George Eastman of Rochester who gave \$64,000 for the building; and the gifts of other citizens of Rochester provided for its furnishing and equipment. The accompanying illustrations will serve to show the appearance of the building and the distribution of space to the two departments. The building consists of three stories and a high basement. The basement and first story form the physical laboratories, the second and third stories the biological laboratories.

Student Residence. There are, as yet, no college dormitories. Several of the chapter-houses of the Greek-letter fraternities, however, are located near the campus. These furnish accommodations for many of their members. Students also find comfortable homes with families residing within a few minutes' walk of the college, in the most attractive quarter of the city.

The Library

The library is located in the building provided for it by the Honorable Hiram Sibley of Rochester, which has recently been greatly improved and enlarged in capacity by the donor's son, Hiram W. Sibley, of Rochester.

The library contains about 45,000 volumes, including a circulating musical library of about 1000 volumes, given for the benefit of the public by Hiram W. Sibley. The valuable collection of scientific books and periodicals belonging to the

Rochester Academy of Science is also located in Sibley Hall, and is available for use by the Faculty and students.

Provision for the increase of the library is made in part by special endowments amounting to \$31,000. The income from these funds is not adequate, however, to meet the demand, and an additional appropriation is made each year from the general fund. One of the greatest needs of the University is a large increase in the endowment of the library.

Both in the selection of books and in the classification of the library, primary regard is given to the wants of the several departments of instruction in the college. It is the policy of the library, however, to provide also for the wants of the general public, so far as funds at its disposal will permit. The library is already supplied with a good collection of works of such general interest, and with files of a large number of the best periodicals, both general and special, in German, French, Italian, and Spanish, as well as in English.

During the year there were added to the library by purchase 541 volumes and by gift 1476, including additions to the Sibley Musical Library, public documents, periodicals, catalogues, and donations from individuals.

The library has been enriched during the year past by two gifts made by the classes of 1880 and 1905 respectively. The class of 1880 at the twenty-fifth anniversary of its graduation contributed \$275.00 for the purchase of plaster casts of ancient sculpture. Three full size reproductions have been placed in the large reading room, the Winged Victory of Samothrace, the Hermes and Infant Dionysus of Olympia, and the Venus of Melos. It is hoped that this gift may form the nucleus of a much larger collection of casts of ancient sculpture. The class of 1905 at its graduation left

money for the purchase of a fine geographical globe, which has been placed in the library for the convenience of readers.

The librarian gives instruction to all new students in the use of books and the consultation of this library.

The new musical library is open to the citizens of Rochester, with the privilege of withdrawal of books for home use, subject only to such conditions as apply in all public libraries. The general library of necessity is administered primarily for the benefit of the members of the college. The general public, however, is cordially welcome at all times to the use of the reading room with the privilege of consultation of any books possessed by the library, and to all other privileges as far as the usefulness of the library for the purposes of the college will permit.

The library is open from 8:30 a. m. to 5:30 p. m. daily throughout the year, excepting Sundays and legal holidays.

Other Libraries Available to Students

The Library of the Rochester Theological Seminary contains about 33,500 volumes, which by courtesy are placed at the service of the students of the college. Although selected chiefly with reference to the requirements of theological students, this library contains a very large number of works, especially in the departments of philosophy and history, which render it a valuable auxiliary to the instruction given in the college.

The Reynolds Library was established through the generosity of Mr. M. F. Reynolds, as a free reference and circulating library for the citizens of Rochester. It contains about 56,500 volumes, and is especially valuable on account of the possession of a large number of standard works of reference. It has complete sets of nearly all the best

American and English periodicals. Its resources are constantly made use of by the students of the college for the investigation of subjects connected with their courses of study.

• **The Appellate Division Law Library** contains over 29,000 volumes. This library is next to the largest public law library in the State of New York. While it is intended to meet the special needs of the legal profession, it contains many works which are useful to general students in history and political science.

There are thus accessible to the students of the college in the libraries in the city of Rochester about 165,000 volumes.

The Laboratories

The Reynolds Chemical Laboratory. The department of Chemistry occupies the Reynolds Memorial Laboratory, which was specially planned to combine the best possible facilities for chemical work. All the rooms are spacious and well-lighted. In the basement are the assay laboratory, shop, and storage room. The first story contains the qualitative laboratory with accommodations for forty students, the quantitative laboratory with room for twenty students, the reference library, balance room, store room, and professor's office and private laboratory. The second story contains the chemical lecture room, the apparatus room, the chemical cabinet, the optical room, and the photographic laboratory.

The Physical Laboratory. The department of Physics occupies the ground floor and first story in the new Eastman Laboratories. The ground floor is well lighted with high windows, and was carefully constructed to exclude dampness and to obtain solid foundations for instruments of precision. On this floor is the galvanometer laboratory with concrete floor, slate shelf on the outer wall, and constructed free from iron. In connection there is a room for electrical standards and instruments of precision, several rooms equipped for special research, a constant temperature room and a dark room. The ground floor also contains a large dynamo laboratory, equipped for work with direct and alternating current, single and polyphase; an electrochemical laboratory; a thoroughly equipped shop for the construction and repair of apparatus; a forge room, a room for storage batteries, and provision for gas generators and vacuum and pressure pumps.

The first floor is provided with a lecture room seated for one hundred and forty students, fully equipped in all particulars for experimental lectures in physics, with an ample apparatus room for both lecture and laboratory apparatus; a general physical laboratory with accommodations for twenty-five students working at one time; a balance room provided with stone piers for mechanical measurements; a laboratory for the study of light, with full supply of dark rooms for photometry and photography; a recitation room; a department library, and offices for the instructors.

The laboratories and lecture room are fully furnished with water, gas, electricity, compressed air, and high pressure steam for experimental purposes. These new laboratories are thoroughly equipped with reference to the interests of general classes, and the conduct of special investigations by more advanced students. The present equipment comprises sufficient illustrative apparatus to render possible a course of experimental lectures covering the elements of the subject and extending through the year. The laboratory apparatus includes Sartorius balances, Société Genevoise dividing engines linear and circular, and a Société Genevoise comparateur, a 120 centimeter column cathetometer constructed in the laboratory; galvanometers of all types, Siemens' electro-dynamometer, ammeters and voltmeters of the Weston, Whitney and Thompson types, Kelvin electrostatic voltmeter, standard condensers and resistances, standard cells, Max Kohl twelve-inch induction coil, thirty-inch eight-plate Wimshurst influence machine constructed in the laboratory, twenty-cell storage battery of fifty ampere-hour capacity constructed in the laboratory, one thousand-cell water battery constructed in the laboratory, portable storage batteries, Hartmann and Braun bridge, Otto Wolff potentiometer and bridge with standard cells, regula-

tor and multiplier, all with Reichsanstalt certificates; Société Genevoise spectrometer, prisms, gratings; polariscope with collection of crystals; Société Genevoise optical bench with attachments for diffraction and interference; Michelson interferometer; Schmidt and Haensch spectrometer with horizontal and vertical table, grating holder, quartz objectives, prisms and slits for a large variety of work, polarization attachment, bolometer, and attachment for spectrum photography, the whole making a complete outfit for spectrum investigation; a spectroscope and polariscope of the same make; an Abbé Pulfrich interferometer made by Carl Zeiss of Jena; thermo couples with Reichsanstalt certificates; electric furnace and standard thermometers with certificates for high temperature measurement.

In addition to the apparatus already mentioned a large amount has already been ordered, or is in process of construction in the laboratory. For such construction the shop is adequately equipped, and is in the charge of a competent mechanician, Mr. John W. Radu.

It is the policy of the University to offer to the students every facility for advancement in the study of physics.

The Telescope. A telescope, mounted equatorially on a stone pier, is located in a building erected for that purpose. This instrument, which was made by Clark, has a six-inch object glass, and is provided with right ascension and declination circles. It is designed only as an adjunct to instruction, though sufficiently powerful for purposes of investigation.

The Biological Laboratory. The department of Biology occupies the second and third floors of the new Eastman Laboratories. The second floor contains a general biological laboratory connecting with a botanical laboratory in such a manner that the two can be used together and fur-

nish accommodation for sixty students working at the same time; a large preparation room; a bacteriological laboratory with incubating and inoculating rooms; a histological laboratory; a vivarium and an aquarium; a department library; and instructors' offices and private laboratories.

The third floor contains the biological lecture room with seats for one hundred and forty students and a chart and preparation room attached; a recitation room; a chemical laboratory for all chemical work incidental to biological study; conservatories for the culture of botanical material; an herbarium; and a large room for the biological museum.

These laboratories are fully furnished with gas, water, electricity, high pressure steam, compressed air, and apparatus for photomicrography and projection, including an epidiascope, lantern and projection microscope, for general instruction; and for special biological study there is also a full equipment, including compound and dissecting microscopes, a large Zeiss stand with apochromatic objectives and compensating oculars, a filar micrometer, Abbe camera lucida, Thoma and Minot microtomes, paraffine baths, injecting apparatus, incubating oven, steam and hot air sterilizers, autoclave, glassware, etc.; also a complete set of the reagents and stains used in histology and embryology. For the work in physiology there has been provided a very complete outfit of apparatus essential to the demonstration of the fundamental facts of the science, including a kymograph, spring myograph, sphygmograph, and many other instruments of precision used in demonstrating and recording the phenomena of muscle, nerve, circulation, respiration, and the special senses and the like; a series of clastic models (Auzoux), including a manikin, heart, eye, ear, brain, lungs, and a series of Ziegler's wax models of the brains of typical vertebrates; also a human skeleton and

a number of osteological preparations, such as a skull entire, a skull disarticulated (Beauchene), a vertebral column, thorax, upper and lower limbs. A collection of skeletons, illustrating all of the classes of vertebrates and nearly all of the orders of mammals, serves for work in comparative osteology. A complete set of Ziegler's wax models of the development of amphioxus and of the chick and of Deyrolle's models of the development of the human embryo illustrate the work in embryology. Numerous standard and specially made charts facilitate the work of instruction.

The botanical laboratory is provided with a very full collection of laboratory material for work in general morphology, and microtomes, paraffine oven, and all necessary reagents. The laboratory has a full equipment of apparatus for work in plant physiology, including a klinostat and auxanometer. Complete sets of the Errara and Laurent physiological charts, and of the Dodel-Port Anatomical and Physiological Atlas of Botany, facilitate the work of instruction. Provision for special work upon the fungi and in vegetable pathology will soon be made.

The Geological Laboratory. The department of Geology occupies the second floor of Sibley Hall. The main hall is devoted to the geological museum (see page 21). The laboratory is temporarily located in the geological lecture room in the tower, adjacent and convenient to the museum and cabinets. Facilities are provided for the study of minerals and rocks in their physical properties. A large collection of lantern views, photographs and maps illustrates physical and structural geology. Material is at hand for special work in paleontology and in glacial and economic geology.

The Museums and Cabinets

The Ward Geological Collections. The Geological Museum consists chiefly of the original collections in mineralogy, petrography, paleontology, and phenomenal geology made by Professor Henry A. Ward, LL. D. They were accumulated by him through many years of labor and extensive travel in execution of a plan to create a complete museum of geology for use in teaching. The material thus successfully gathered was purchased in 1862 for the University, chiefly through the generosity of citizens of Rochester. At that time it was the largest and choicest geological collection in America, including about 40,000 specimens, handsomely mounted and labeled. The Ward collections have been supplemented by gifts from various classes and individuals, and by subsequent purchases, and thus constitute to-day one of the best geological museums in the country. Among the later acquisitions the most notable are several of the Ward casts of famous fossils, given by various classes; a huge crystal of gypsum, believed to be the largest ever found in perfection, 51 x 21 inches and weighing 612 pounds, given by the class of 1896; the Educational Series of rock specimens, 156 in number, presented by the United States Geological Survey; a collection of carboniferous plants, made by Professor H. L. Fairchild, who gathered them in the Wyoming and Lackawanna coal basin; and a small collection of material relating to prehistoric man.

The systematic collection in mineralogy contains a great majority of the mineral species now recognized. These are represented by about 5,000 choice specimens, including commonly both crystallized and amorphous examples of the min-

eral. The specimens are largely from European localities—the rich mining regions of Cornwall, Saxony, and Hungary having furnished many of the choicest masses of ores and most brilliant crystals. Among the largest groups are the fluorites, the quartzes and the calcites.

Crystallography and economic and phenomenal geology are illustrated by special collections.

The collection of rocks, about 3,000 in number, was gathered by Professor Ward from the localities where specific rocks were first described. In addition to the specimens exhibited in the cases, there are in the drawers special collections representing the geology of characteristic regions; among these are 150 specimens from Vesuvius, once in d'Archaic's cabinet, 180 from Tuscany, 100 from Mt. Blanc, 120 from the Paris Basin, 80 from Saxony, 200 from Central France, and several hundred collected by the State Geological Survey, representing the New York strata.

The paleontological collection represents clearly the life of past ages. Under each geological age the fossils are arranged biologically, in order of rank, with the exception of those of the Age of Reptiles, which are so numerous and prominent that the three periods (Triassic, Jurassic and Cretaceous) are treated separately. The slabs on the walls are mostly copies of famous reptilian fossils. The collection contains about 8,000 species of European fossils besides those from America, altogether represented by about 25,000 specimens. It is particularly rich in ammonites and Tertiary mollusks. This collection is supplemented and enriched by a number of the large Ward casts.

Of material relating to prehistoric man, the museum contains a small but well authenticated collection of flint and bronze instruments from the drift regions of Abbéville and St. Acheul, in France; also, a collection of stone im-

plements from the vicinity of Copenhagen, and a collection of North American stone implements, with numerous specimens of pottery from the tombs of the Incas.

The Zoölogical Collection, at present on the third floor of Sibley Hall, was established during 1890, the nucleus being the material already possessed by the University, and the vertebrates gathered by Professor Henry A. Ward during a South American journey in 1889. The collection contains, among other things, a good representation of South American birds and mammals, including a family group of the ostrich, together with a number of edentates and monkeys. The museum also contains many coelenterates, echinoderms and mollusks. A series of models illustrates some of the lower forms. An especial effort is being made to represent the local fauna.

The museum is open to the public, and offers to the people and schools of Western New York an exceptional opportunity for the study of the earth's structure and history.

Other Collections Available to Students

Ward's Natural Science Establishment. The students of the biological and geological sciences have an unusual opportunity in the proximity of Ward's Natural Science Establishment. This institution not only surpasses in size and scope any similar establishment in the world, but in some respects is entirely unique. It has adhered to its high purpose of handling only typical and well authenticated material, and has been largely instrumental in creating or helping museums all over the country, and in stimulating scientific study. In itself the establishment has been an educational institution. Much of the work done there requires

careful research with thorough examination and comparison of specimens, and many persons connected with it have become scientific workers of reputation. The establishment had its beginning in the accumulation of the collection now possessed by the University. Students have free access to the establishment when accompanied by an instructor.

Botanical Institutions. The extensive nurseries of Messrs. Ellwanger & Barry, the largest in the world; the other great seed farms, nurseries, and plant houses located in or near Rochester; and the splendid collection of orchids and of rare and curious exotic plants belonging to Mrs. William S. Kimball, one of the largest in the United States, furnish the student with unrivaled opportunities for the study of botanical science, both pure and applied. Through the courtesy of their proprietors, all of these institutions are freely open to students taking biological work.

Expenses and Aid

There are, as yet, no college dormitories. Patrons are recommended to secure for students whom they send to the college, so far as practicable, the influence of a Christian home. Boarding and rooms can be obtained in private families for from \$3.50 to \$6.00 a week. The Registrar will furnish all necessary information on the subject.

Tuition for undergraduates is \$25.00 a term. The fee for incidental expenses—such as janitor service, heat, light, repairs and use of the gymnasium—is \$7.00 a term.¹ Additional fees, to cover the cost of fuel, power and materials consumed in their work, are charged to students who take work in the chemical, biological, geological, and physical laboratories, and a special graduation fee of \$10 is charged to Seniors.

Term bills are due at the beginning of each term, and must be paid before October 1, January 15, and April 10, respectively. Students who fail to meet this requirement will be marked absent in all their classes by the Registrar until their accounts have been settled. Students who are pursuing special studies pay full tuition. No deduction is made for absence.

A year's expenses may be estimated from the following table and notes. The flexible items are given on three scales.

	Low.	Average.	Liberal.
• Tuition (3 terms)	\$ 75	\$ 75	\$ 75
Incidentals	21	21	21
Living expenses, board, lodging, etc....	130	175	250
Books and stationery.....	15	25	40
	<hr/> \$241	<hr/> \$296	<hr/> \$386

¹ The incidental fee for women, for whom as yet no gymnasium facilities are available, is \$5.00 a term.

Laboratory fees, varying from \$1 to \$10 a term in the different courses, should be added to this estimate.

Expenses for traveling, clothing, subscriptions to college societies and student organizations are so distinctly personal that they cannot be averaged.

STUDENT EMPLOYMENT

A limited number of students are given the opportunity of paying their tuition wholly or in part by means of services in the library or in the laboratories or in other departments of the college. The amount of service expected in payment of tuition varies with the nature of the work, but the compensation is usually estimated at 20 cents an hour.

A large number of students find profitable employment in the city in teaching private pupils, and in various other occupations, thus enabling them to provide in considerable part for the expenses of their education. Students who have practical acquaintance with any of the useful arts are generally able to procure remunerative employment in the city.

Students who desire outside employment are aided in their efforts to obtain it through an employment bureau conducted by the Registrar, who keeps on file information concerning every student who desires employment, and by co-operating with the employers of the city renders systematic aid in this direction.

SCHOLARSHIPS ESTABLISHED FOR MEN

The Baptist Union Scholarships, forty in number, one of which is the **Hollenbeck Scholarship**, are awarded to students for the Christian ministry, on recommendation of the New York Baptist Union for Ministerial Education. Application for the scholarships should be made to the Cor-

responding Secretary of the Union (the Rev. J. R. Henderson, D. D., Trevor Hall, Rochester). If the applicant is approved by the Baptist Union, the Secretary of the Union furnishes him an order entitling him to tuition (\$75.00 a year). This is to be presented to the President of the University, and if the applicant is found to be "worthy by character, attainments, and diligence to receive the bounty," the order is endorsed by the President and is accepted by the Treasurer. The Union also grants assistance to students for the ministry, when additional aid is necessary, the amount granted being determined by the student's standing. The award for the Freshman year will be determined by the average attained in the entrance examinations.

The Rochester City Scholarships, twenty-four in number, six in each class, three in the classical course and three in the philosophical and scientific courses, are granted by the Trustees to the City of Rochester for the benefit of young men graduating from the Rochester High Schools. Four of these scholarships, one in each class, are **Prize Scholarships**, yielding tuition and incidental fees (\$96.00 a year), the others yield only tuition (\$75.00). Nominations to these scholarships are made by the Principals of the High Schools in June of each year, the prize scholarship being assigned to the candidate whose record is the highest. In September the scholarships are awarded according to these nominations if the candidates have entered a regular course without conditions. The scholarships may be retained throughout the course of four years if the holders continue in a regular course and have met the conditions specified on page 32.

The Burbank Scholarships, four in number, one in each college class (yielding \$75.00 a year), endowed by John H. Deane, of New York City, are awarded to young men

graduating from the Brockport Normal School. The Principal of the Normal School furnishes the Registrar, prior to the entrance examinations in June, the names of all qualified candidates, arranged, first, in the order of their standing, second, in the order of their financial need. Only those candidates are eligible who are admitted to a regular course, without condition, at the June examinations. As soon as possible thereafter the scholarship will be awarded by the college to the applicant considered most worthy, and he will be notified of his appointment. The holder of the scholarship for the Freshman year is given the preference in the award for each of the following years of the course, provided he has met the conditions specified on page 32.

The Burrows Scholarship was established by the Trustees in 1901 in memory of Roswell S. Burrows, of Albion, N. Y., a generous benefactor of the University. The scholarship (yielding \$75.00 a year) is awarded to a young man graduating from the Albion High School who is nominated for it by the Board of Education of Albion.

The Buffalo Prize Scholarships. Three prize scholarships are offered by the Trustees for the coming year to students in the Central, the Masten Park, and the Lafayette High Schools in Buffalo, one for each school. These scholarships yield tuition and incidental fees (\$96.00 a year). The Principal of each of these schools may designate a young man of high ability, as recipient of a prize scholarship. If he enters a regular course in September, 1906, without conditions, he will receive the scholarship, and may retain it for four years, if he fulfils the conditions specified on page 32.

Three Prize Scholarships, yielding tuition and incidentals (\$96.00 a year), in addition to those granted to the high schools in Rochester and Buffalo, are offered by the Trustees each year to the three applicants from any other schools who pass the best entrance examinations in June,

provided that but one of these scholarships will be awarded in any one year to applicants from any one school. The holder of one of these scholarships may retain it through a regular course of four years if he fulfils the conditions specified on page 32.

The college possesses in addition the scholarships named below. Unless otherwise stated, each scholarship entitles its holder to tuition (\$75.00 a year). The scholarships are awarded to those applicants who best fulfil the conditions stated on pages 31-33, unless special stipulations inconsistent with those conditions have been made by the donors. Scholarships endowed for the benefit of certain classes of persons may be assigned to others, if no qualified person of the classes specified apply for them. If the donor of a scholarship who has reserved the right to designate the recipient fails to exercise that right, the scholarship may be awarded by the college.

The Bronson Scholarship, endowed by W. C. Bronson of Painted Post.

The Cole Scholarship, endowed by P. Charles Cole of New York City. Preference is to be given to the heirs of the donor.

The Davis Scholarship, endowed by Isaac Davis of Worcester, Mass.

The Deane Scholarships, ten in number, endowed by John H. Deane of New York City for the benefit of sons of Baptist ministers who require aid in procuring an education, preference being given to students from the States of New York and New Jersey.

The De Land Scholarship, endowed by Henry A. De Land of Fairport.

The Fox Scholarship, endowed by Alanson J. Fox of Detroit, Mich.

The Galusha Scholarships, two in number, endowed by Norman H. Galusha of Rochester.

The Greenleaf Scholarship, endowed by Halbert S. Greenleaf of Rochester.

The Huntington Scholarship, endowed by Nathan and Calvin Huntington of Rochester. Preference is to be given to members of the Huntington family.

The Huntley Scholarship, endowed by Byron E. Huntley of Batavia.

The Johnson Scholarship, endowed by Elias Johnson of Troy.

The Sheffer Scholarship, endowed by Mary M. Sheffer of Chili.

The Sheldon Scholarship, endowed by Abram Sheldon of Adams Center.

The Sibley Scholarship, endowed by Rufus A. Sibley of Rochester.

The Tucker Scholarship, endowed by Ephraim W. Tucker of Boston, Mass. Preference is to be given, first, to a blood relation of the donor; second, to a native of the Town of Ogden, Monroe County.

The Waters Scholarships, five in number, endowed by Mrs. Ann Waters of Brooklyn.

The Wright Scholarship, endowed by Alfred Wright of Rochester.

SCHOLARSHIPS ESTABLISHED FOR WOMEN

The Rochester City Scholarships, eight in number, two in each class, one in the classical, and one in the philosophical or the scientific course, are granted by the Trustees to the City of Rochester for the benefit of young

women graduating from the Rochester High Schools. Four of these scholarships, one in each class, are **Prize Scholarships**, yielding tuition and incidentals (\$90.00 a year), the others yield simply tuition (\$75.00). The award is made on terms similar to those which control the city scholarships for men. (See page 27.)

The college possesses in addition the following scholarships established for the benefit of women:

The Mary S. Anthony Scholarship, endowed by Miss Mary S. Anthony of Rochester.

The Susan B. Anthony Scholarship, endowed by friends of Miss Anthony.

The Helen Barrett Montgomery Scholarship, endowed by a friend of Mrs. W. A. Montgomery of Rochester.

The Whitcomb Scholarship, endowed by Mrs. Tursey G. Whitcomb of Rochester.

The Willis Scholarship, endowed by Mrs. Sarah L. Willis of Rochester.

GENERAL CONDITIONS

a Governing the award of scholarships

All scholarships, excepting the Baptist Union Scholarships, the Rochester City Scholarships, the Burbank Scholarships, the Burrows Scholarship, and the several Prize Scholarships, the terms of which have already been named, are awarded on the following conditions:

1 Every applicant is required to make a formal application on a printed blank provided for the purpose, giving a detailed statement of the circumstances which render the request necessary; and this application must be endorsed by two persons familiar with the circumstances of the applicant,

but not related to him by blood or marriage, and not officially connected with the University as teacher or trustee.

2 Scholarships are granted for one college year only, at the expiration of which, if renewal is desired, application must be made with the same formality as at first.

3 Scholarships are granted only to students who are pursuing one of the regular courses for a degree, and (except in the case of new students) whose average standing during the preceding college year has reached 80 per cent. (for prize scholarships 90 per cent.)

4 In the case of new students a scholarship is granted subject to the following provisions:—

(1) When an application has been received and approved, the applicant will be notified that he is accepted as a scholarship student.

(2) Such a student will be expected to pay the tuition and other fees for the first term.

(3) If the student's average standing for the first term reaches 80 per cent. the scholarship award will be confirmed, and the payment made on tuition account in the first term will be credited on account of all the incidental and laboratory fees which may be chargeable to the student for the remainder of the year.

(4) If the student's average standing for the first term fails to reach 80 per cent. the scholarship will not be awarded.

b *Governing the retention of scholarships*

1 If the holder of a scholarship fails to reach an average standing of 80 per cent. in any term, he forfeits his scholarship for the following term.

2 If, by reason of failure to pass an examination within the prescribed time, he is required to take any study with a lower class or under a private tutor, he forfeits his scholarship for the term to which that study belongs.

3 If he receives a second warning to improve in his studies, or is under discipline, or fails to maintain a high standard of honor in college life, he forfeits his scholarship.

DEFERRED TUITION

Students who are unable to pay tuition, but to whom scholarships yielding free tuition cannot be awarded, may be granted the privilege of deferring payment until after graduation, ultimate payment being guaranteed by notes, satisfactorily endorsed, without interest for a limited period. The form of application for deferred tuition and the general conditions upon which it is granted are the same as for scholarships, except that—

1 Deferred tuition may, in exceptional cases, be granted to special students.

2 Deferred tuition is not granted to any student whose standing in any subject for the preceding year (in the case of a new student, during his first term's residence) falls below 60 per cent.; and if he fails to reach a standing of 60 per cent. in any subject in any term, he forfeits the privilege for the following term.

All inquiries concerning scholarships and deferred tuition should be addressed to the President.

Admission

Candidates for admission to the Freshman class must be at least fifteen years of age. Every candidate, before presenting himself for examination, must be formally registered. In connection with his registration he must furnish to the Registrar a testimonial of good moral character from the Principal of the preparatory school from which he comes, or from some citizen in good standing.¹

Students applying for admission from another college must bring certificates of honorable dismissal, together with an official statement of college work already done.

By action of the Trustees, which became effective September 8, 1900, women are admitted to the college on the same terms and conditions as men.

THE REQUIREMENTS FOR ADMISSION

The entrance requirements are indicated in detail on pages 37 to 47. The subjects prescribed for admission to the several courses are as follows:

For the Classical Course, leading to the degree Bachelor of Arts.

Total requirements, 14 points²

English (1st, 2nd, and either 3rd or 4th years)		
(pages 38-40).....	3	points
Mathematics (pages 44-46).....	2	"
Algebra .	(1)	
Geometry	(1)	

¹ In the case of schools which have the privilege of recommending students for admission, the certificate form for scholastic work provides also for the requisite testimonial of good character.

² A point being defined as a subject pursued for an entire school year with five exercises a week of not less than forty minutes each.

Review of Algebra and Plane Geometry ¹	$\frac{1}{2}$ points	
Latin (page 40)	4	"
Grammar and 1st year Latin	(1)	
Cæsar	(1)	
Cicero and Prose Composition	(1)	
Vergil	(1)	
Greek (page 40)	3	"
Grammar and 1st year Greek	(1)	
Xenophon and Prose Composition	(1)	
Homer	(1)	
History (page 44)	$1\frac{1}{2}$	"
United States and Civics	($\frac{1}{2}$)	
Greek	($\frac{1}{2}$)	
Roman	($\frac{1}{2}$)	

For the Philosophical Course, leading to the degree Bachelor of Philosophy.

Total requirements, 14 points

English (1st, 2nd, and either 3rd or 4th years) (pages 38-40)	3	points
Mathematics (pages 44-46)	2	"
Algebra	(1)	
Geometry	(1)	
Review of Algebra and Plane Geometry ¹	$\frac{1}{2}$	"
Latin ² (page 40)	4	"
Grammar and 1st year Latin	(1)	
Cæsar	(1)	
Cicero and Prose Composition	(1)	
Vergil	(1)	
German or French (pages 40-43).....	2	"
Elementary (1st and 2nd year)		
History (page 44)	$1\frac{1}{2}$	"
United States and Civics	($\frac{1}{2}$)	
Roman	($\frac{1}{2}$)	
And one half point from the following:		
Greek	($\frac{1}{2}$)	
English	($\frac{1}{2}$)	
Medieval	($\frac{1}{2}$)	

¹ One point in advanced mathematics, including solid geometry, may be substituted for the review of algebra and plane geometry.

² Greek (3 points) may be substituted for Latin in the philosophical course provided that the candidate offers also an additional point in advanced German, in French, or in physics.

One point from the following:.....	I	point
Physics ¹ (page 46).....	(1)	
German or French (pages 40-43)		
Intermediate (3rd year).....	(1)	
French or German (1st year).....	(1)	

For the Scientific Course, leading to the degree of Bachelor of Science.

Total requirements, 14 points

English (1st, 2nd, and either 3rd or 4th years)		
(pages 38-40)	3	points
Mathematics (pages 44-46)	2	"
Algebra.....	(1)	
Geometry.....	(1)	
Review of Algebra and Geometry ²	1½	"
Foreign Language. Not less than 4 nor more than		
6 points	4-6	"
German (pages 42, 43).....	(2)	
Elementary (1st and 2nd year)		
French (pages 40-42).....	(2)	
Elementary (1st and 2nd year)		
Latin (2, 3, or 4) (page 40).....	(2)	
Spanish (page 42).....	(2)	
Elementary (1st and 2nd year)		
Physics ¹ (pages 46, 47)	1	"
History (page 44)	1½	"
United States and Civics.....	(½)	
Greek.....	(½)	
Roman.....	(½)	
English.....	(½)	
Medieval.....	(½)	

To complete the 14 points required, not more than two points may be selected from the following: 0-2 "

Advanced Mathematics ³ (pages 45, 46)	
Advanced Algebra.....	(½)
Solid and Spherical Geometry.....	(½)
Plane and Sph'l Trigonometry.....	(½)
Chemistry ¹ (page 47).....	(1)
Botany ¹ (page 47).....	(1)
Zoölogy ¹ (page 47).....	(1)
Physical Geography ¹ (page 47).....	(½)

¹Laboratory note-books must be presented for all work in science offered for admission.

²One point in advanced mathematics, including solid geometry, may be substituted for the review of algebra and plane geometry.

³For admission to group B, either solid geometry and trigonometry, or chemistry should be offered.

Students desiring to pursue a special course, leading to no degree, are required, *except in extraordinary cases*, to pass an examination, or to give satisfactory certificates, in the following *minimum requirement*:

English <i>a</i> and <i>b</i> (pages 44-46).....	2	points
Mathematics <i>a</i> and <i>b</i> (pages 44-46)	2	"
History <i>a</i> and either <i>b</i> , <i>c</i> , <i>d</i> or <i>e</i> (page 44)	1	"
And one language.....	2	"
Latin <i>a</i> and <i>b</i> (page 40).....	(2) or	
Greek <i>a</i> and <i>b</i> (page 40).....	(2) or	
German (pages 42, 43).....	(2) or	
French (pages 40-42).....	(2)	

Special students are further required to qualify in the *full* entrance requirements in any department in which they wish to pursue college work, except in the case of German and French, which may be begun in college. They may also be examined in any further subjects deemed to be essential by the instructors in the studies which they wish to take.

For further regulations concerning special students see page 73.

A fair equivalent for the requirements for admission will be accepted; but candidates for admission are advised to conform literally to the requirements of the catalogue.

DETAILED STATEMENT OF ENTRANCE REQUIREMENTS

English: The purpose of the entrance requirements in English is to test the applicant's ability to write the language clearly and correctly. Spelling, grammar and the elementary principles of sentence and paragraph structure must be mastered before the candidate presents himself for admission. Deficiencies in these subjects will be sufficient cause for rejection. The examination is based upon the reading and study of certain books, essays and poems; but

familiarity with these works of literature will not compensate for serious faults in composition. Questions of minute interpretation or philological detail are not emphasized in the examination. An intelligent understanding of the works read in their broader aspects is all that is expected, accompanied by the ability to write good English.

English: a *Reading*. The books recommended for reading in 1906, 1907, and 1908 are the following:

Shakspeare's *Merchant of Venice*; Shakspeare's *Julius Cæsar*; *The Sir Roger de Coverley Papers*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Rime of the Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; George Eliot's *Silas Marner*; and Lowell's *Vision of Sir Launfal*.

In 1909, 1910, and 1911, ten books selected as prescribed from the following list, are to be offered for the examination:

Group I. (two to be selected).

Shakspeare's *As You Like It*, *Henry V*, *Julius Cæsar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (one to be selected).

Bacon's *Essays*; Bunyan's *The Pilgrim's Progress*, *Part I*; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III. (one to be selected).

Chaucer's *Prologue*; Spenser's *Faerie Queene*, (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury (First Series) Books II and III.*, with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV. (two to be selected).

Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V. (two to be selected).

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincy's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI. (two to be selected).

Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury (First Series) Book IV*, with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

b *Study and Practice*.

The books set for this part of the examination in 1906, 1907, and 1908 are:

Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

For 1909, 1910, 1911: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's

Speech on Conciliation with America, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

Greek: a *Grammar*. A thorough knowledge of forms and ordinary usages of syntax.

b *Xenophon*. The first four books of the *Anabasis*.

c *Homer*. The first three books of the *Iliad*.

d *Composition*¹. The ability to translate into Greek prose simple English sentences based on the *Anabasis* of Xenophon. Jones's, Woodruff's, Higley's, and Flagg's text books in composition are recommended.

Latin: a *Grammar*. A thorough knowledge of forms and the ordinary usages of syntax.

b *Cæsar*. The first four books of the *Gallic War*, or two books of *Cæsar* and an equivalent amount of *Nepos*.

c *Cicero*. Six orations, *viz.*, the four against *Catiline*, the *Archias*, and the *Manilian Law*.

d *Vergil*. The first six books of the *Aeneid*, or, instead of the fifth book, an equal number of lines from the *Eclogues* or from *Ovid's Metamorphoses*.

e *Composition*¹. The ability to translate into Latin prose simple English sentences based on the orations of *Cicero* required for admission. Jones's, Daniell's, and Bennett's text books in composition are recommended.

French: a *Grammar*. A thorough knowledge of forms and of the ordinary usages of syntax.

b *Composition*. Ability to put into French simple sentences exemplifying the grammatical constructions and easy variations of the texts read. In amount this work should

¹Certificates for Greek Composition and Latin Composition will not be accepted, unless the work has been reviewed or taken in the year preceding admission to college.

be equivalent to the retranslation of about one-tenth of the number of pages read in French.

c *Reading*. During the first year of preparation from 100 to 175 duodecimo pages of graduated texts; during the second, 250 to 400 pages of easy modern prose.

d *Pronunciation*. Careful drill together with frequent repetition of easy colloquial sentences.

These requirements are conformed to the recommendations of the Modern Language Association of America for elementary French; namely, two years of work as follows:

During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns, the use of personal pronouns, common adverbs, prepositions, and conjunctions, the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's

stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouvé and Labiche's *La cigale chez les fourmis*, Malot's *Sans famille*, Mariet's *La tâche du petit Pierre*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Le siège de Paris*, Verne's stories.

Spanish: a *Grammar*. A thorough knowledge of forms and of the ordinary usages of syntax.

b *Composition*. Ability to put into Spanish simple sentences exemplifying the grammatical constructions and easy variations of the text read. In amount this work should be equivalent to the retranslation of about one-tenth of the number of pages read in Spanish.

c *Reading*. During the first year of preparation from 100 to 175 duodecimo pages of graduated text; during the second, 250 to 400 pages of easy modern prose.

d *Pronunciation*. Careful drill with frequent repetition of easy colloquial sentences.

German: a *Grammar*. A thorough knowledge of forms and of the ordinary usages of syntax.

b *Composition*. Ability to put into German simple sentences exemplifying the grammatical constructions and easy variations of the texts read. In amount this work should be equivalent to the retranslation of about one-tenth of the number of pages read in German.

c *Reading*. During the first year of preparation from 75 to 100 duodecimo pages of graduated texts; during the second, 150 to 200 pages of literature in the form of easy stories and plays.

d *Pronunciation*. Careful drill together with the memorizing and frequent repetition of easy colloquial sentences.

These requirements are conformed to the recommendations of the Modern Language Association of America for elementary German; namely, two years of work as follows:

During the first year the work should comprise: (1) careful

drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*; *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien*, and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

The best shorter plays available are: Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. Only one of these plays need be read. The narrative style should predominate. A good selection of reading matter for the second year would be: Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that, such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly, *Der Prozess*.

History: a *American History and Civil Government*, from the beginning of the colonial period to the present time, as treated in the school histories of Montgomery, Fiske, McMaster or Adams and Trent.

b *Roman History*, from the founding of the city to the reign of Charlemagne, as treated in the school histories of Morey, Myers, Botsford, or West.

c *Greek History*, including a brief survey of ancient oriental nations, as treated in the school histories of Morey, Myers, Botsford, or West.

d *Mediæval and Modern History*, from the empire of Charlemagne to the treaty of Berlin, as treated in the school histories of Adams, Robinson, or West.

e *English History*, from the Roman conquest to the death of Victoria, as treated in the school histories of Montgomery, Wrong, Cheyney, or Andrews.

Applicants for the classical course are required to pass in *a*, *b*, and *c*; those for the philosophical course in *a*, *b*, and one other, and those for the scientific course in *a*, and two others of the above requirements.

Mathematics: a *Algebra*. This includes the following subjects: the four fundamental operations for rational algebraic expressions: factoring, determination of highest common factor and lowest common multiple by factoring; fractions; including complex fractions, ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending on

quadratic equations; the binomial theorem for positive integral exponents; the formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

NOTE. This requirement agrees with those of the College Entrance Examination Board in Elementary Algebra I and II. The requirements of the Regents of the University of the State of New York will be accepted in place of the above syllabus.

b *Plane Geometry*. The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle; the solution of numerous original exercises, *including loci problems*; application to the mensuration of lines and plane surfaces.

c *Advanced Algebra*. Variation; the binomial theorem (proof for positive integral exponents only); the theory and use of logarithms and exponential equations; permutations and combinations limited to simple cases; undetermined coefficients with applications to partial fractions and the expansion of functions in series; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations, but not the multiplication theorem; numerical equations of higher degree, and so much of the theory of equations, with graphi-

cal methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

NOTE. While the above syllabus is recommended, an applicant may present an equivalent list of topics.

d *Solid Geometry*. The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

e *Trigonometry*. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum and for the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; the solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

In each subject great importance is attached to readiness and accuracy, and to neatness in the arrangement of written work.

In algebra and geometry no certificate will be accepted for work that has not been pursued or reviewed within the year preceding the time of admission.

Physics: The equivalent of one year's training with daily exercises, two-fifths of which time should be devoted to laboratory work. *A note-book covering forty experiments,*

properly certified by the instructor, must be presented at the time of entrance. Any one of the following text books represents the matter that should be covered: Carhart and Chute, Hall and Bergen, Nichols (Outlines), Wentworth and Hill, Gage, Thwing.

Chemistry: The equivalent of one year's training (daily work) in the general laws and theories of chemistry, and the occurrence, preparation, and properties of the common elements and their compounds as presented in such text books as Remsen's Briefer Course, Williams, Shepard, or Newell. *A note-book describing all laboratory work properly certified by the instructor must be presented at the time of entrance.*

Botany: One year's training (daily work) in general botany as treated in the text book of Atkinson, Bergen, Coulter, or Spaulding. *A note-book describing all laboratory and field work and certified by the instructor, must be presented at the time of entrance.*

Zoölogy: One year of daily work in the subject as treated in such text books as Kellogg, Jordan, Davenport. Part of the time should be devoted to practical studies by the student, and *a note-book, describing this work and certified by the instructor, must be presented at the time of entrance.*

Physical Geography: One half-year of daily work in the subject as treated in such text books as Tarr, Davis, and Dryer, with training in the laboratory and in the field. *A note-book, describing the laboratory and field work, certified by the instructor, must be presented at the time of entrance.*

Registration for Examination

Candidates for admission are required to present themselves for registration at Anderson Hall promptly at the time appointed for registration in the programme of entrance examinations (see below). All applicants for the examinations must show to each examiner registration cards indicating the course for which application is made.

Times and Order for Examinations

The first examinations for admission occur on the Monday and Tuesday following Commencement, in accordance with the following programme:

Monday (June 25, 1906)

8 a. m. to 12 m.—Registration.

1.30 to 3.30 p. m.—Written examination in English.

3.30 to 5.30 p. m.—Oral examinations in Greek and Latin authors and in Greek and Roman history.

Tuesday

8.15 to 9.45 a. m.—Written examination in algebra.

10 to 11 a. m.—Written examination in geometry.

11 a. m. to 1 p. m.—Oral examinations in modern languages and in history (mediæval, modern, American.)

2 to 2.45 p. m.—Written examination in Latin composition and grammar.

3 to 3.45 p. m.—Written examination in Greek composition and grammar.

2 to 5.30 p. m.—Oral examinations in natural sciences (Note-books must be presented to the examiners).

A report of the result of the June examinations will be sent to each candidate by mail within one week from the time they are taken.

The second examinations for admission occur on the Tuesday and Wednesday before the opening of the Autumn term, in accordance with the following programme:

Tuesday (September 18, 1906)

8 a. m. to 1 p. m.—Registration.

2 to 4 p. m.—Written examination in English.

4 to 6 p. m.—Oral examinations in Greek and Latin authors, and in Greek and Roman history.

Wednesday

8.15 to 9.45 a. m.—Written examination in algebra.

10 to 11 a. m.—Written examination in geometry.

11 a. m. to 1 p. m.—Oral examinations in modern languages and in history (mediæval, modern, American).

2 to 2.45 p. m.—Written examination in Latin composition and grammar.

3 to 3.45 p. m.—Written examination in Greek composition and grammar.

2 to 5.30 p. m.—Oral examinations in natural sciences (Note-books must be presented to the examiners).

Examinations held by the College Entrance Examination Board will be accepted in place of the examinations conducted by this college.

Admission by Certificate

Certain academies, high schools, and normal schools are permitted to enter their graduates as students in this college without examination. This privilege is granted only to schools which are known to furnish full and satisfactory preparation for college in at least one of the three courses of study, the certificate being accepted only for those courses in which full preparation is given.

A school which desires the certificate privilege is required to make personal application through its Principal, to furnish on a blank supplied by the Registrar of this college full particulars regarding the work of the school, and to send a catalogue or circular of the school, if one is published. The same information is required once in three years of all schools holding the certificate privilege. The privilege may be withdrawn at the discretion of the Faculty. In case of the withdrawal of the privilege, notice will be sent to the Principal early in the school year.

Each certificate must be made out on a blank furnished (on application) by the Registrar, and must give exact information regarding the amount and character of the work of the student in each subject.

The certificate will be accepted in lieu of an entrance examination only to the extent it actually covers, or is equivalent to, the published requirements for admission—the student still being required to pass an entrance examination upon those studies or portions of studies which are not specifically covered by the certificate.

No certificate will be accepted unless presented within fifteen months from the date of the student's completion of

his preparatory course.

Certificates must be sent to the Registrar by the authorities of the school at the earliest possible date and not later than the Saturday immediately preceding the autumn entrance examination.

Certificates, and academic diplomas given by the Regents of the University of the State of New York will be accepted in lieu of entrance examinations, in all the topics which they specifically cover.

Conditions, Failure, and Rejection

An applicant for admission whose preparatory work in any department is found to be deficient is "conditioned" if his deficiency is not so great as to forbid his entering on the work of the class in that department.

An applicant whose deficiency in any department is so great as to forbid his taking college work in that department is reported as having "failed."

Applicants who "fail" or are "conditioned" in June may apply for re-examination in September.

Applicants who "fail" in any department in the September examinations will not be examined again for admission in that department until the next regular entrance examinations.

Applicants who stand conditioned at the close of the September examinations are required to remove their deficiencies at a time specified by the examiners. The Faculty may in any case require that the deficiencies be made up under a specified tutor.

An applicant for a regular course who has "failed" in the entrance requirements for any department in that course, will be refused admission to the course for which he applies.

An applicant for admission as a special student who fails in any of *the minimum requirements for special students* (see page 37), will be "rejected," that is, refused admission to college in any capacity.

Certificates of Matriculation

Not later than the first Monday of the college year the Registrar will deliver to each applicant for admission who has been accepted a *certificate of matriculation*, with a memorandum of such conditions, if any, as have been recorded against the applicant. The newly admitted students are required to show their certificates of admission to each of their instructors at the first appointment after the first Monday of the college year. Those who fail to present certificates at the time required will be marked absent until their certificates are presented.

Admission to Advanced Standing

Candidates for advanced standing are required to meet the entrance requirements in the course which they wish to enter, and to pass examinations in all the subjects which have been pursued by the class to which they seek admission, or in others equivalent to them.

Students from other colleges whose entrance requirements are equal to those of this college, will be credited with work for which they bring an official record, indicating the number of hours devoted to each subject, and the standing attained. Students from other colleges are received only on presentation of letters of honorable dismissal from the colleges at which they have been in attendance. Such students to qualify for graduation from this college must spend not less than one year in residence.

Courses of Study for Bachelor's Degrees

Three courses of study, each extending through four years, are open to students of this college: the CLASSICAL COURSE, leading to the degree of Bachelor of Arts; the PHILOSOPHICAL COURSE, leading to the degree of Bachelor of Philosophy; and the SCIENTIFIC COURSE, leading to the degree of Bachelor of Science.

These undergraduate courses aim to furnish a liberal education and to give that breadth of culture which is secured by the combination of prescribed work with a large freedom in election of studies. Each of them offers studies which will fit the students for the most advantageous pursuit of later special study, should they choose to enter any of the learned professions. The Scientific course, however, provides for definite specialization in some one science, by a system of groups, in each of which one science is given large emphasis at the same time that other sciences and general studies are prescribed.

The unit employed in fixing the total requirements for graduation is the "hour of credit," which is equal to a course of one hour a week for one term. In laboratory courses at least two hours of attendance are required to gain one hour of credit; the general rhetorical work in Freshman elocution, Sophomore essays, Junior and Senior orations and debates is valued at one hour of credit for each term for the four years; and in physical training three hours of attendance a week throughout a year constitute three hours of credit.

The total requirement for the bachelor's degree in any course is 198 hours of credit, divided as follows:

- | | |
|---|-----|
| 1 Regular courses in class room or laboratory | 180 |
| 2 General rhetorical work | 12 |
| 3 Physical training | 6 |

No student is permitted to take in any term less than ten hours nor more than twenty-two hours a week,—work in physical training being omitted in this reckoning. Each student is required to register with the proper class officer for the studies he proposes to pursue each term. Studies prescribed for his course must first be provided for, then elections may be chosen from the courses announced for the term, subject to any restrictions named in the description of the courses in this catalogue. The dates for the completion of such term registrations may be found in the calendar (pages 154, 155).

A student is enrolled as a Freshman until he has secured credit for at least thirty-four hours, and has removed all entrance conditions; then as a Sophomore until he has secured credit for at least eighty-one hours, including all the studies prescribed for his Freshman year; then as a Junior until he has secured credit for at least one hundred and thirty hours, including all the studies prescribed for his Sophomore year; then as a Senior until he has completed the full requirements for a bachelor's degree. The rating of students in accordance with these definitions is made for each year at the opening of the first term.

The following schedules indicate the work prescribed in the different bachelor's degree courses. Studies prescribed in each course must be taken in the order indicated unless the class officer advises otherwise, and they must be supplemented by elective studies sufficient to complete the work requisite for a degree.

THE CLASSICAL COURSE

PRESCRIBED STUDIES

In all courses Elocution 1, 2, 3, and Rhetoric 4, 5, 7, 8, 9, and physical training are prescribed, in addition to the 180 hours of credit required for a degree (see page 55).

English

Rhetoric 1, 2, 3.....2 hours each, Freshman I, II, III.

English 1, 2.....2 hours each, Sophomore I, II.

Mathematics 1, 2, 3, 4.....4, 4, 4, 3 hours, Freshman I, II, III, Sophomore I.

Latin 1, 2, 3.....5 hours each, Freshman II, Sophomore I, III.

Greek 1, 2, 3 5 hours each, Freshman I, III, Sophomore II.

German 1, 2.....5 hours each, Freshman I, II.

French 1, 2.....5 hours each, Sophomore II, III.

Physics A, B.....5 and 2 hours, Sophomore I, II.

NOTE. Physics B may be omitted by students who elect instead Physics 1, 2, or 3. If physics was offered at entrance, Physics A and B may be omitted.

Chemistry 1.....5 hours, Sophomore III.

Biology 53 and 2 hours, Sophomore II, III.

Biology 65 hours, Senior I.

Geology 2.....5 hours, Senior I.

History 1, 2.....5 hours each, Junior I, II.

Economics 1, 25 hours Junior III.

Philosophy 1, 2, 3.....5 hours each, Junior I, II, III.

NOTE. Roman numerals following a year indicate the terms first, second, and third.

SYNOPSIS—CLASSICAL COURSE

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
Greek 1	5	86	Latin 1	5	88	Greek 2	5	86
German 1	5	93	German 2	5	93	Option		
Elocution 1		84	Elocution 2		84	German 3	5	93
Physical Training	119		Physical Training	119		Latin 7	5	90
						Elocution 3		84
						Physical Training		119

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	Latin 3	5	89
Latin 2	5	89	Greek 3	5	86	Biology 5	2	106
Physics A	5	100	Biology 5	3	106	Chemistry ³ 1	5	103
Mathematics 4	3	98	French ¹ 1	5	95	or		
or			or			Greek 6 or 9	5	87
Mathematics ² 4a	5		Mathematics 5	5	98	French 2	5	95
Rhetoric 4		82	Physics B	2	100	or		
Physical Training	119		Rhetoric 4		82	Mathematics 6	5	98
			Physical Training	119		Rhetoric 4		82
						Physical Training		119

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Elective	5		Elective	5		Elective	5	
Rhetoric 7		83	Rhetoric 5 or 9		83	Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Electives	15	Electives
Geology 2	5	110	Rhetoric 8 or 9	83	
Elective	5				
Rhetoric 8		83			

In the year 1906-1907 Juniors must elect Biology 5 unless they arrange with the class officer to take it in their Senior year.

In the year 1906-1907 Seniors must take Philosophy 1, 2, and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

* ¹Students who desire to take Mathematics 5 and 6 must take French 1 and 2 later in the course.

²Mathematics 4a must be taken by students who wish to elect calculus.

³Students who desire to take Greek 5, 6 or 9 must take Chemistry 1 later in their course.

THE PHILOSOPHICAL COURSE

PRESCRIBED STUDIES

In all courses Elocution 1, 2, 3, and Rhetoric 4, 5, 7, 8, 9, and physical training, are prescribed, in addition to the 180 hours of credit required for a degree (see page 55).

English

Rhetoric 1, 2, 3.....2 hours each, Freshman I, II, III.

English 1, 22 hours each, Sophomore I, II.

Mathematics 1, 2, 3, 44, 4, 4, 3 hours, Freshman I, II, III, Sophomore I.

Latin 1, 2, 35 hours each, Freshman II, Sophomore I, III.

German 3 or 4, 55 hours each, Freshman I, III.

French 1, 25 hours each, Freshman I, II.

Chemistry 15 hours, Sophomore III.

Biology 53 and 2 hours, Sophomore II, III.

Biology 65 hours, Senior I.

Geology 1, 2,

or 1, 3, 45 hours each, Sophomore II, Senior I, or I, II, III.

History 1, 25 hours each, Junior I, II.

Economics 1, 25 hours, Junior III.

Philosophy 1, 2, 35 hours each, Junior I, II, III.

Options as indicated in Synopsis of course on opposite page.

Students who do not offer physics for entrance must take Physics A in course. Such students must also take Physics B or 1, 2, or 3, unless they elect calculus.

NOTE. Roman numerals following a year indicate the terms, first, second, and third.

SYNOPSIS—PHILOSOPHICAL COURSE

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
German ¹ 3 or 4	5	93	Latin 1	5	88	German 5	5	94
French 1	5	95	French 2	5	95	Option		
Elocution 1	84		Elocution 2	84		French 3		95
Physical Training	119		Physical Training	119		Physics ² 2		101
						Elocution 3		84
						Physical Training		119

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	Latin 3	5	89
Latin 2	5	89	Biology 5	3	106	Biology 5	2	106
Mathematics 4	3	98	Geology 1	5	109	Chemistry 1	5	103
Option ³	5-7		Option ³	5-7		Option ³		
Mathematics 4a	2		Mathematics	5	98	Mathematics 6	5	98
Rhetoric 6	3	83	English 7	5	85	English 3	5	84
Physics A	5	100	English 5	3	84	English 4	3	84
Physics v	5	101	Physics B	2	100	English 8	3	85
Biology 1	5	105	Physics 3	5	101	Physics 2 or 4	5	101
Italian 1	}	96	Biology 2	5	106	Biology 3	5	106
Spanish 1			Italian 2	}	96	Italian 3	}	96
Rhetoric 4		82	Spanish 2			Spanish 3		
Physical Training	119		Rhetoric 4		82	Rhetoric 4		82
			Physical Training	119		Physical Training		119

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Elective	5		Elective	5		Elective	5	
Rhetoric 7		83	Rhetoric 7 or 9		83	Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Electives	15	Electives		
Geology 2	5	110	Rhetoric 8 or 9		83		
Elective	5						
Rhetoric 8		83					

In the year 1906-1907 Juniors must elect Geology 1 unless they arrange with the class officer to take it in their Senior year.

In the year 1906-1907 Seniors must take Philosophy 1, 2, and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

¹Students who enter with three years of German take German 4.

²Students who enter with physics may choose Physics 2 in the third term Freshman.

³Each student will select from the options a continuous course for the year, with the advice of the class officer. Mathematics 4a must be taken by students who wish to elect calculus. Physics A must be taken by students who have not offered physics for entrance. This subject may be postponed to Junior or Senior year by the advice of the class officer, if one of the other options is preferred at this time; such students must also take Physics B or 1, 2, or 3 at some time during the course, unless they wish to elect calculus.

THE SCIENTIFIC COURSE

PRESCRIBED STUDIES

In all courses Elocution 1, 2, 3, and Rhetoric 4, 5, 7, 8, 9, and physical training are prescribed, in addition to the 180 hours of credit required for a degree (see page 54).

The Scientific course is arranged in four groups. In each group certain general studies are prescribed, together with a predominance of work in some one science. If any student prefers a more general to a specialized course in science, one may be arranged by advising with the class officer.

GROUP A. CHEMISTRY AS MAJOR.

Studies common to all groups in the Scientific course—72 hours:

English

Rhetoric 1, 2, 3 ..2 hours each, Freshman I, II, III.

English 1, 22 hours each, Sophomore I, II.

Mathematics 1, 2, 3, 4, 4, 4, 4, 3, hours, Freshman I, II, III,
Sophomore I.

German 3 or 4, 95 hours each, Freshman I, II.

French 3, 45 and 2 hours, Freshman III, Sophomore III.

History 1, 25 hours each, Junior I, II.

Economics 1, 25 hours, Junior III.

Philosophy 1, 2, 3 .. 5 hours each, Junior I, II, III.

Additional prescribed studies

Chemistry, five terms, 5 hours each, Freshman III, Sophomore I, II, III, Junior II.

Physics 1, 2, 35 hours each, Sophomore I, II, III.

Biology 1, 5, 65 hours each, Freshman I, Sophomore II and III, Junior I.

Geology 1, 35 hours, Freshman II, Junior I.

Studies recommended but not prescribed

Chemistry5 hours a term, Senior II and III.

Physics 105 hours, Senior I.

Biology 75 hours, Junior III or Senior III.

Geology 4 or 75 hours, Senior I, III.

NOTE. Roman numerals following a year indicate the terms, first, second, and third.

SYNOPSIS—SCIENTIFIC COURSE

GROUP A. CHEMISTRY AS MAJOR

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
German ¹ 3 or 4	5	93	German 9	5	94	French 3	5	95
Biology 1	5	105	Geology 1	5	109	Chemistry 1	5	103
Elocution 1		84	Elocution 2		84	Elocution 3		84
Physical Training		119	Physical Training		119	Physical Training		119

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	French 4	2	95
Mathematics 4	3	98	Biology 5	3	106	Biology 5	2	106
Chemistry 2	5	104	Chemistry 3	5	104	Chemistry 4	5	104
Physics 1	5	101	Physics 3	5	101	Physics 2	5	101
Rhetoric 4		82	Rhetoric 4		82	Rhetoric 4		82
Physical Training		119	Physical Training		119	Physical Training		119

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Geology 3	5	110	Chemistry 5	5	104	Option		5
Rhetoric 7		83	Rhetoric 5 or 9		83	Biology 7	5	107
						Chemistry		104
						Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Chemistry	5	104	Chemistry	5	104
Physics 10	5	102	Electives	10		Electives		
Geology ² 7	5	111	Rhetoric 8 or 9		83			
Rhetoric 8		83						

In the year 1906-1907 Sophomores who have taken Biology 5 must take Geology 1, and Chemistry 3, three hours instead of five hours.

In the year 1906-1907 Seniors must take Philosophy 1, 2, and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

¹Students who offered three years of German for entrance will take German 4.

²Geology 4, third term, may be elected instead of Geology 7.

SCIENTIFIC COURSE

GROUP B. PHYSICS AS MAJOR

(Pretechnical Group.)

Studies common to all scientific groups, as above (page 60).

Additional prescribed studies

Physics 1, 2, 3, 4 5 hours each, Sophomore I, II, III.

Physics 5 a total of 10 hours in Junior and Senior years.

Mathematics 4a, 5, 6 5 hours each, Sophomore I, II, III.

Mechanical Drawing 5, 2 hours, Freshman I, II.

Chemistry 1, 2, 3 1, 5, 5 hours, Freshman III, Sophomore I, II.

Biology 5 3 and 2 hours, Freshman II, III.

Biology 6 5 hours, Senior I.

Geology 3, 5 5 and 3 hours, Senior I, II.

Studies recommended but not prescribed

Mathematics 7 a, b, c, 8 3 hours, Junior I, II, III.

Physics 6, 9, 10 3, 3, 3, 5, and 5 hours, Junior I, II, III, Senior I, II.

Astronomy 5 hours, Senior III.

NOTE. Roman numerals following a year indicate the terms, first, second, and third.

Pretechnical Studies. Scientific B will fit students who graduate in this group to complete their engineering studies in two years at a technical school, provided they choose Mathematics 7 and 8, Physics 6, and take nine hours of shop work at the Mechanics Institute. Geology 5 may be omitted. Physics 8 is recommended for Senior III, but not prescribed.

SYNOPSIS—SCIENTIFIC COURSE

GROUP B. PHYSICS AS MAJOR

(PRETECHNICAL GROUP.)

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
German ¹ 3 or 4	5	93	German 9	5	94	French 3	5	95
Mechanical Drawing	5	103	Mechanical Drawing	2	103	Biology 5	2	106
Elocution 1		84	Biology 5	3	106	Chemistry ² 1	1	103
Physical Training	119		Elocution 2		84	Elocution 3	1	84
			Physical Training	119		Physical Training		119

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	French 4	2	95
Mathematics 4a	5	98	Mathematics 5	5	98	Mathematics 6	5	98
Physics 1	5	101	Physics 3	5	101	Physics 2	5	101
Chemistry 2	5	104	Chemistry 3	5	104	Physics 4	5	101
Rhetoric 4		82	Rhetoric 4		82	Rhetoric 4		82
Physical Training	119		Physical Training	119		Physical Training		119

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Physics 6	3	102	Physics 6	3	102	Physics 6	3	102
Mathematics 7	3	98	Mathematics 7	3	98	Mathematics 7	3	98
Rhetoric 7		83	Rhetoric 5 or 9		83	Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Geology 5	3	111	Mathematics 8	3	99
Geology 3	5	110	Physics 5	5	101	Physics 5	5	101
Physics 10	5	102	Physics 9	5	102	Astronomy	5	103
Rhetoric 8		83	Rhetoric 8 or 9		83			

In the year 1906-1907 Seniors must take Philosophy 1, 2, and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

¹Students who offered three years of German for entrance will take German 4.

²Students who offered chemistry for entrance will attend review quizzes once a week. Others will take Chemistry 1, five hours.

SCIENTIFIC COURSE

GROUP C. BIOLOGY AS MAJOR.

Studies common to all groups in the Scientific course—72 hours:

English

Rhetoric 1, 2, 3.....2 hours each, Freshman I, II, III.

English 1, 2.....2 hours each, Sophomore I, II.

Mathematics 1, 2, 3, 4.....4, 4, 4, 3 hours, Freshman I, II, III, Sophomore I.

German 3 or 4, 95 hours each, Freshman I, II.

French 3, 4.....5 and 2 hours, Freshman III, Sophomore III.

History 1, 2.....5 hours each, Junior I, II.

Economics 1, 25 hours, Junior III.

Philosophy 1, 2, 3.....5 hours each, Junior I, II, III.

Additional prescribed studies

Biology 1, 2, 3, 6, 75 hours each, Freshman I, II, Sophomore III, Junior III, Senior I.

Biology 42 hours, Sophomore III.

Biology 53 and 2 hours, Sophomore II, III.

Chemistry 1, 2, 35 hours each, Freshman I, Sophomore I, II.

Physics 1, 2, 35 hours each, Sophomore I, II, III.

Geology 2, 5.....5 and 3 hours, Senior I, II.

Geology 3 and 4 may be taken instead of Geology 2.

Studies recommended but not prescribed

Biology 133 hours, Senior I.

Biology 8, 9, 10, 11, 125 hours each, Junior I, II, Senior I, II, III.

NOTE. Roman numerals following a year indicate the terms, first, second, and third.

SYNOPSIS—SCIENTIFIC COURSE

GROUP C. BIOLOGY AS MAJOR

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
German ¹ 3 or 4	5	93	German 9	5	94	French 3	5	95
Biology 1	5	105	Biology 2	5	106	Chemistry 1	5	103
Elocution 1		84	Elocution 2		84	Elocution 3		84
Physical Training		119	Physical Training		119	Physical Training		119

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	French 4	2	95
Mathematics 4	3	98	Biology 5	3	106	Biology 5	2	106
Chemistry 2	5	104	Chemistry 3	5	104	Biology 3	4.5	106
Physics 1	5	101	Physics 3	5	101	Biology 4	2	106
Rhetoric 4		82	Rhetoric 4		82	Physics 2	5	101
Physical Training		119	Physical Training		119	Rhetoric 4		82
						Physical Training		119

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Biology 8	5	107	Biology 9	5	107	Biology 7	5	107
Rhetoric 7		83	Rhetoric 5 or 9		83	Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Geology 5	3	111	Biology 11	5	108
Geology 2	5	110	Biology 12	5	108	Electives		
Biology 10	5	108	Electives					
Biology 13	3	109	Rhetoric 8 or 9		83			
Rhetoric 8		83						

In the year 1906-1907 Seniors must take Philosophy 1, 2, and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

¹Students who offered three years of German for entrance will take German 4.

SCIENTIFIC COURSE

GROUP D. GEOLOGY AS MAJOR

Studies common to all groups in the Scientific course—72 hours:

English

Rhetoric 1, 2, 3.....2 hours each, Freshman I, II,
III.

English 1, 2.....2 hours each, Sophomore I, II.

Mathematics 1, 2, 3, 4.....4, 4, 4, 3 hours, Freshman I, II,
III, Sophomore I.

German 3 or 4, 95 hours each, Freshman I, II.

French 3, 4.....5 and 2 hours, Freshman III,
Sophomore I.

History 1, 2.....5 hours each, Junior I, II.

Economics 1, 25 hours, Junior III.

Philosophy 1, 2, 3.....5 hours each, Junior I, II, III.

Additional prescribed studies

Geology 1, 3, 45 hours each, Freshman II,
Junior I, III.

5, 63 and 2 hours, Junior II.

Chemistry 1, 2, 35 hours each, Freshman I,
Sophomore I, II.

Physics 1, 2, 35 hours each, Sophomore I, II,
III.

Biology 15 hours, Freshman I.

43 hours, Sophomore III.

53 and 2 hours, Sophomore II, III.

Studies recommended but not prescribed

Geology 7, 8, 9, 10, 11.....5 hours each, Senior I, II, III.

Two of these courses *must* be taken.

NOTE. Roman numerals following a year indicate the terms, first, second, and third.

SYNOPSIS—SCIENTIFIC COURSE

GROUP D. GEOLOGY AS MAJOR

FRESHMAN YEAR

First Term	hours	page	Second Term	hours	page	Third Term	hours	page
Rhetoric 1	2	82	Rhetoric 2	2	82	Rhetoric 3	2	82
Mathematics 1	4	97	Mathematics 2	4	97	Mathematics 3	4	97
German ¹ 3 or 4	5	93	German 9	5	94	French 3	5	95
Biology 1	5	105	Geology 1	5	109	Chemistry 1	5	103
Elocution 1		84	Elocution 2		84	Elocution 3		84
Physical Training	119		Physical Training	119		Physical Training	119	

SOPHOMORE YEAR

English 1	2	84	English 2	2	84	French 4	2	95
Mathematics 4	3	98	Biology 5	3	106	Biology 5	5	106
Chemistry 2	5	104	Chemistry 3	5	104	Physics 2	5	101
Physics 1	1	101	Physics 3	5	101	Biology 3	4	106
Rhetoric 4		82	Rhetoric 4		82	Biology 4	2	106
Physical Training	119		Physical Training	119		Rhetoric 4		82
						Physical Training	119	

JUNIOR YEAR

History 1	5	112	History 2	5	113	Economics 1, 2	5	115
Philosophy 1	5	116	Philosophy 2	5	117	Philosophy 3	5	117
Geology 3	5	110	Geology 5, 6	5	111	Geology 4	5	110
Rhetoric 7		83	Rhetoric 5 or 9		83	Rhetoric 5		83

SENIOR YEAR

Biology 6	5	107	Geology ² 8	5	112	Geology ² 9 or 10	5	112
Geology ² 7 or 11	5	111	Elective			Elective		
Elective			Rhetoric 8 or 9		83			
Rhetoric 8		83						

In the year 1906-1907 Sophomores who have taken Biology 5 must take Geology 1 and Chemistry 3, three hours, instead of five hours.

In the year 1906-1907 Seniors must take Philosophy 1, 2 and 3.

NOTE. Electives will be chosen from the schedule of courses for the several terms (pages 68-72), subject to restrictions named in connection with the several courses.

¹Students who offered three years of German for entrance will take German 4.

²Two courses must be selected from Geology 7, 8, 9, 10, 11; 7 and 8 are given with chemical emphasis, 9 and 11 with physical emphasis, and 9 and 10 with biological emphasis.

SCHEDULE OF ALL COURSES OFFERED

FIRST TERM

- Biology** 1, Practical Biology, the Biology of the Cell, p. 105.
 6, Physiobgy, p. 107.
 8, Histology, p. 107.
 10, Morphology of Cryptogams, p. 108.
 13, Fungi and Fungous Diseases of Plants (3), p. 109.
- Chemistry** 2, Qualitative Analysis, p. 104.
 3, Quantitative Analysis, p. 104.
 5, Organic Chemistry, p. 104.
- Elocution** 1, The Theory of Elocution (1), p. 84.
- English** 1, English Literature (2), p. 84.
 9, General and Comparative Literature and the Development of English Prose, p. 85.
 10, Recent English and American Poetry, p. 85.
 11, The English Bible, p. 85.
- French** 1, Elementary French a, p. 95.
 5, French Drama, p. 95.
 7, Old French (3), p. 96.
- Geology** 2, Elementary Geology, p. 110.
 3, Physical Geology, p. 110.
 7, Economic Geology, p. 111.
 11, Glacial Geology, p. 112.
- German** 1, Elementary German a, p. 93.
 3, Intermediate German, p. 93.
 4, Schiller, p. 94.
 10, German Comedy (1), p. 95.
- Greek** 1, Lysias or Herodotus, p. 86.
 7, Plato, p. 87.
 8, Aristotle, p. 87.
 11, Greek Reading, p. 88.
- History** 1, Middle Ages, p. 112.
 3, Constitutional Law, p. 113.
- Italian** 1, Elementary Italian, p. 96.
- Latin** 2, Horace, p. 89.
 4, Catullus, Tibullus, and Propertius, p. 89.
 5, Latin Rhetoricians, p. 90.
 10a, Epigraphy (3), p. 91.
 13, Sight Reading (1), p. 92.
- Mathematics** 1, Advanced Algebra (4), p. 97.
 4, Analytic Geometry (3) p. 98.
 4a, Plane and Solid Analytic Geometry, p. 98.

- 7a, Analytic Mechanics (3), p. 98.
- 9, Historical and Critical Review of Elementary Geometry (2), p. 99.
- 10a, Theory of Functions of the Complex Variable, p. 99.
- Mechanical Drawing**, p. 103.
- Philology** 3, Comparative (2), p. 93.
- Philosophy** 1, Elementary Psychology, p. 116.
- 4, Introduction to Philosophy (Metaphysics), p. 117.
- 5, History of Ancient Philosophy, p. 117.
- Physics** A, General Course, p. 100.
- 1, Mechanics and Heat, p. 101.
- 5, Physical Measurements, p. 101.
- 6, Alternating Currents (3), p. 102.
- 10, Electrochemistry, p. 102.
- Rhetoric** 1, Elementary Style (2), p. 82.
- 4, English Composition (1), p. 82.
- 6, Daily Themes and Prose Style (2), p. 83.
- 7, Class Room Debates, p. 83.
- 8, Senior Orations, p. 83.
- Spanish** 1, Elementary Spanish, p. 96.

SECOND TERM

- Biology** 2, Practical Biology: the Biology of the Animal, p. 106.
- 5, General Biology (3), p. 106.
- 9, Embryology, p. 107.
- 12, Plant Physiology, p. 108.
- Biblical Literature** 2, The Life and Writings of Paul (2), p. 119.
- Chemistry** 2, Qualitative Analysis, p. 104.
- 3, Quantitative Analysis, p. 104.
- 5, Organic Chemistry, p. 104.
- Elocution** 2, Practical Training (1), p. 84.
- English** 2, English Literature (2), p. 84.
- 5, American Literature (3), p. 84.
- 6, Shakspeare (2), p. 85.
- 7, Old English (Anglo-Saxon) Prose and Poetry. p. 85.
- French** 1, Elementary French a, p. 95.
- 2, Elementary French b, p. 95.
- 6, Advanced Composition (3), p. 96.
- Geology** 1, Elementary Mineralogy and Petrology, p. 109.
- 5, Meteorology (3), p. 111.
- 6, Physiography (2), p. 111.
- 8, Advanced Physical Geology, p. 112.
- German** 2, Elementary German b, p. 93.

- 6, Goethe, Selections, p. 94.
- 7, Goethe, Faust, p. 94.
- 9, Scientific German, p. 94.
- 10, German Comedy (1), p. 95.
- Greek** 3, Plato, p. 86.
 - 4, Epic or Lyric Poets, p. 86.
 - 10, Greek Archæology, p. 88.
 - 11, Greek Reading (2 or 3) p. 88.
- History** 2, Modern States System, p. 113.
 - 4, History and Principles of the Roman Law, p. 114.
- History of Art**, Belgium and Holland (3), p. 120.
- Italian** 2, Select Readings, p. 97.
- Latin** 1, Livy, p. 88.
 - 6, Roman Philosophy, p. 90.
 - 10b, Latin Palæography (1), p. 91.
 - 11, Historical Latin Grammar, p. 91.
 - 13, Sight Reading (1), p. 92.
- Mathematics** 2, Plane and Spherical Trigonometry (4), p. 97.
 - 5, Differential Calculus, p. 98.
 - 7b, Analytic Mechanics (3) p. 98.
 - 9, Historical and Critical Review of Elementary Geometry (2), p. 99.
 - 11a, Projective Geometry (2), p. 99.
 - 12a, Theory of Potential, p. 100.
- Mechanical Drawing** (2), p. 103.
- Philology** 1, Sanskrit Grammar, p. 92.
- Philosophy** 2, Logic, p. 117.
 - 6, History of Modern Philosophy, p. 117.
 - 7, Institutes of Education, p. 118.
 - 9, Readings in Philosophy (1), p. 118.
- Physics** B, General Laboratory (2), p. 100.
 - 3, Electricity, p. 101.
 - 5, Physical Measurements, p. 101.
 - 6, Alternating Currents (3), p. 102.
 - 9, Theory of Electricity, p. 102.
- Rhetoric** 2, Expository Composition (2), p. 82.
 - 4, English Composition, p. 82.
 - 5, Junior Essay Work, p. 83.
 - 8, Orations, p. 83.
 - 9, Advanced Work in Debate (1), p. 83.
- Spanish** 2, Select Readings, p. 96.

THIRD TERM

- Astronomy**, General Astronomy, p. 103.
- Biblical Literature** 2, The Life and Writings of Paul (2), p. 119.

- Biology** 3, Plant Ecology (4 or 5), p. 106.
 4, Systematic Botany (2), p. 106.
 5, General Biology (2), p. 106.
 7, Bacteriology, p. 107.
 11, Morphology of Phanerogams, p. 108.
- Chemistry** 1, Theoretical and Descriptive, p. 103.
 3, Quantitative Analysis, p. 104.
 4, Quantitative Analysis, p. 104.
 5, Organic Chemistry, p. 104.
- Elocution** 3, Class Room Declamations (1), p. 84.
- English** 3, English Poetry from Spenser to Wordsworth, p. 84.
 4, Chaucer (3), p. 84.
 8, Béowulf (3), p. 85.
 11, The English Bible (1), p. 85.
- French** 2, Elementary French b, p. 95.
 3, Modern French Prose and Poetry, p. 95.
 4, Scientific French (2), p. 95.
- Geology** 4, Historical (Stratigraphical) Geology and Paleontology, p. 110.
 9, Advanced Historical Geology, p. 112.
 10, Paleontological Geology, p. 112.
- German** 3, Intermediate German, p. 93.
 5, Lessing, p. 94.
 8, Advanced Composition, p. 94.
 10, German Comedy (1), p. 95.
- Greek** 2, Euripides, p. 86.
 5, Demosthenes, p. 86.
 6, Greek New Testament, p. 87.
 9, Hellenistic Greek, p. 87.
 11, Greek Reading (2 or 3), p. 88.
- History** 5, International Law and Diplomacy, p. 114.
- Italian** 3, Classic Prose and Poetry (3), p. 97.
- Latin** 3, Tacitus and Juvenal, p. 89.
 7, Plautus and Terence, p. 90.
 8, Teachers' Course, p. 90.
 9, Advanced Composition, p. 91.
 12, Roman Topography and Architecture, p. 92.
 13, Sight Reading (1), p. 92.
- Mathematics** 3, Solid and Spherical Geometry (4), p. 97.
 6, Integral Calculus, p. 98.
 7c, Analytic Mechanics (3), p. 98.
 8, Descriptive Geometry, p. 99.

- 9, Historical and Critical Review of Elementary
Geometry (2), p. 99.
- 11a, Projective Geometry (3), p. 99.
- Philology 2, Sanskrit Readings (2), p. 93.
- Philosophy 3, Elementary Ethics, p. 117.
- 8, History of Education, p. 118.
- 9, Readings in Philosophy (1), p. 118.
- Physics 2, Sound and Light, p. 101.
- 4, Dynamo and Motor, p. 101.
- 5, Physical Measurements, p. 101.
- 6, Alternating Currents (3), p. 102.
- 8, Practical Photography (3), p. 102.
- Political Economy 1, General Economics, p. 115.
and
2, Special Economic Topics, p. 115.
- Rhetoric 3, Argumentative Composition (2), p. 82.
- 4, English Composition, p. 82.
- 5, Junior Essay Work, p. 83.
- Spanish 3, Classic Prose and Poetry (3), p. 96.

Special Students

Students who desire to receive instruction in particular departments without becoming candidates for a degree are admitted, if they have sufficient preparation to profit by the instruction given in the subjects which they propose to take; their fitness may be determined either by examination or by the presentation of certificates in the *minimum entrance requirement* indicated on page 37.

Special students are all subject to the general regulations of the college relating to registration, presentation of certificates, time of entrance examinations, attendance, time and method of election of studies, term and delinquent examinations, and the use of the library.

Special students pay the full tuition and incidental fee, and the laboratory fees attaching to any courses they choose to take.

An applicant for admission as a special student who has recently been a student in a preparatory school will be received only on the written recommendation of the Principal of the school.

Special students, in the first two years of their attendance at the college, are expected to take the prescribed work in physical training (see page 119). Their other studies are to be chosen for each term in the manner prescribed for the choice of elective studies by regular students. A member of the Faculty, designated as the adviser of special students, will counsel with such students concerning their selection of studies for each term.

If a special student "fails" or is "conditioned" in two courses in any term, or if at any time a special student has an accumulation of three delinquencies recorded against him, his connection with the college is thereby terminated.

Preparation for Professional Study

The college aims to furnish a liberal education rather than to train specialists. It is widely acknowledged that a general culture offers the best basis of broad knowledge and discipline on which to build a thorough special training. The curriculum is so arranged, however, that students who wish to do so may gain the bachelor's degree by the election of many studies which contribute to their later professional work.

Theology, Law, and Journalism are professions in which such early specialization is least desirable. A broad knowledge, particularly in lines not closely akin to later work, is here of supreme importance. The best preparation will be secured by a generous election of work in philosophy, history—especially Roman, constitutional, and international law—economics, literature and science. For certain other professions early specialization has some advantages. The opportunities offered to such students are therefore enumerated more particularly.

Studies Preparatory to Medicine. Students who intend to enter the medical profession will find it to their advantage, if, in addition to their prescribed college work, they elect such courses in physics, chemistry, and biology as may correspond to work prescribed in the medical school they expect to enter. Among such studies preparatory to medicine offered in this college are the following:—In the department of Physics, the various courses in electricity; in the department of Chemistry, qualitative and quantitative analysis, pharmaceutical and medical chemistry, including urinary analysis, toxicology, and sanitary chemistry; in the

department of Biology, practical biology, physiology, and general botany, general zoölogy, bacteriology, human and comparative histology.

The matter of adjusting the college curriculum and the medical school curriculum so as to make possible a saving of one year in a combined college and medical course is at present receiving the attention of the Education Department of the State of New York. While such an arrangement has not yet been found practical, pre-medical studies taken in college make it possible for the student to take advanced optional work in the medical schools, so enriching his educational opportunity.

Studies Preparatory to Engineering. The best education for civil, mechanical, and electrical engineers—leaders in the technical professions being the judges—is one in which a course of liberal culture in college precedes the special training of the technical school. The long time which seems to be requisite, however, for securing both the liberal and the technical education deters many young men from seeking this best preparation for a life work.

The course of study in any technical school of the highest grade includes many subjects which are taught also in colleges of liberal arts; such, for instance, as mathematics, physics, chemistry, modern languages, economics, and similar studies. A man cannot become a competent engineer without them, and yet they have a more or less remote relation to the strictly technical preparation for his work.

In view of this fact a modification of the physics group in the scientific course has been arranged for pretechnical students (see note on page 62), which will include all the non-technical work in physics, mathematics, chemistry, and other college subjects, which is taught in the technical schools of highest grade. In connection with this group

arrangements have been made for instruction in mechanical drawing and woodwork at the Mechanics Institute in Rochester during the college course.

Students who choose and successfully complete these pretechnical studies will be fitted to enter the third year in the technical schools of the highest grade, and so may win both a college and a technical degree in six years.¹ A student who desires to follow these pretechnical studies, must enter the physics group in the scientific course (see page 62), and should declare his wish not later than the close of the Sophomore year. A less rigidly prescribed arrangement of studies, which may be taken by students in any of the college courses, will readily effect a saving of one year in a combined college and technical education—securing both the degrees in a total course of seven years from the time of admission to college. *For those whose age and circumstances permit it, such a seven year course is strongly recommended.* It is believed that for many, however, the six year combined course will open an opportunity to secure a thorough and a broad education with the greatest practical economy of time.

A Teachers' Training Department, approved by the State Education Department, has been established in the college for the benefit of those who desire to fit themselves for teaching in the public schools of this State. Students who, upon graduation, have completed the courses prescribed for this department, are entitled to receive the College Graduate Professional Certificate without examination. Candidates for this certificate are required to elect in addition to the prescribed courses in philosophy, the courses in the institutes of education (Philosophy 7) and the history of education (Philosophy 8).

¹ The Massachusetts Institute of Technology, Sibley College in Cornell University, and the School of Applied Science in Columbia University have approved this group of pretechnical studies, as fitted to prepare a man for the advanced standing named above.

Application for registration in this department should be made to the Registrar not later than the end of the Junior year, and the regulations require that a list of the students registered each year shall be forwarded to the Commissioner at the beginning of the year.

The Manual Training Normal Course. Inasmuch as there is an increasing demand for college graduates who are competent to teach manual training in high and grammar schools, arrangements have been made with the Mechanics Institute of Rochester by which it is possible to offer a Normal Course in manual training recognized by the State Education Department. This manual training course may be taken in one year of post-graduate work by graduates from the 'Teachers' Training Department in this college, or it may be taken during the college course by those who elect the necessary work in this college and in the Mechanics Institute.

TEACHERS' REGISTER

The Faculty endeavors to assist the authorities of schools and colleges in securing desirable teachers by recommending graduates and students of this college who are known to be competent and successful. A register is kept of all former students who are engaged in teaching, which contains much accurate information regarding their qualifications and professional record.

Every graduate or former student of the college who is a teacher is requested (1) to furnish for the use of the Faculty full information concerning his past record (a blank indicating the items desired will be forwarded on application to the Registrar), together with copies of testimonials regarding his work; (2) to send to the Registrar from time to time information respecting changes in his work as a

teacher, with particulars as to place of residence, nature of his position, subjects taught, salary, etc.; (3) to notify the Faculty (addressing the President) of his desire to obtain a new engagement, specifying the grade of position sought, subjects of instruction preferred, salary expected, etc.; (4) to furnish to the Faculty, on leaving a position, or on giving notice of his desire to obtain a new appointment, copies of testimonials regarding his work, signed if possible by persons known to some one of the Faculty or by official representatives of the school in which he has taught. All information given and all documents furnished are kept on file for the exclusive use of the Faculty in the recommendation of teachers.

Governing boards of schools and colleges are invited to communicate with the Faculty (addressing the President), when they are in search of a teacher, specifying the grade of the position, the qualities most demanded in its occupant, the studies to be taught, the salary offered, etc.

When informed of a vacancy the Faculty will promptly nominate the man whom they judge to be best fitted for the place, preference being given to one who is known to be in search of such a position, and will notify him of their action. In like manner when notified by a graduate or student that he is an applicant for a given place and desires the endorsement of the Faculty, full information and advice regarding his fitness for the position will be furnished at once to the person designated by the applicant.

No charge is made for any service rendered in the recommendation of teachers.

Courses for the Master's Degrees

Eligibility. The master's degrees are open to persons holding a bachelor's degree from any reputable college, provided he has already taken such studies as fit him for the work which he proposes to do for the master's degree. The degree of Master of Arts is usually given, but students who devote themselves chiefly to scientific subjects may receive the degree of Master of Science.

General Requirements. The requirement for the master's degree is the equivalent of one year's college work, i. e., forty-five hours credit, and a thesis. It is not, however, necessary that the work be completed within one year, but it can be extended beyond two years only by special permission. Candidates for master's degrees should, if possible, pursue their studies in residence, but graduates of this college may be permitted to do the work *in absentia*. Both resident and non-resident students are required to report upon courses taken privately, to each professor in whose department they are studying, at such times as he shall direct; such reports to be made at least once each term.

Graduate Courses. The titles of courses recommended for graduate students will be found under the several departments of instruction. Other subjects will be suggested, when necessary, to meet the wants of individual students. Graduate work usually consists partly in courses of instruction requiring regular attendance, and partly in reading to be done privately and reported on, or original research conducted more or less independently. A graduate student may take subjects in one, two or three departments, provided the subjects are so related as to give proper unity to

his course. Studies pursued in a professional school may be included in a graduate student's course—with the approval of the head of the department concerned—provided such studies give a knowledge of essential facts and principles and methods of instruction, as distinguished from information or skill acquired primarily for use in the practice of a profession.

Registration. One who desires to study for the master's degree should obtain from the Registrar a blank form of application, and, after consulting, in person or by letter, with the professors in charge of the subjects which he wishes to take and securing their approval of his plan of work, he should fill out his application and present or send it to the adviser of graduate students for final approval. No person can be registered as a graduate student until he has received his bachelor's degree.

Thesis. The subject of the thesis is to be agreed upon between the student and the professor to whose department the thesis belongs, and must be reported by the professor to the Registrar for record. The thesis must be submitted to the professor at least one month before Commencement, in printed or typewritten form, on paper of thesis size (8 x 10½ inches), bound according to the Librarian's specifications, and if accepted will be deposited in the college library, where it will be open to public inspection. The thesis must have a table of contents and contain a list of authorities consulted.

Examinations. The examination in each course is taken at such time as the professor in charge shall direct, but all examinations must be completed before the last faculty meeting of the year in which the degree is to be taken. All examinations are held in the presence of a committee of the Faculty, and are public, the time and subject

being posted on the college bulletin board. When the student's thesis is approved and he has passed all examinations, the Faculty recommend to the Trustees the conferring of the degree. The regular time for this action is the last faculty meeting of the college year. No one can receive both the bachelor's and the master's degree at the same Commencement.

Fees. The fees for master's courses are as follows: Registration, \$5.00, payable when the application paper is forwarded to the Registrar. Tuition, \$75.00, payable in three instalments; in the case of residents, at the beginning of each term, under the same regulations as undergraduate tuition; in the case of non-residents, at the beginning of the first year, at the beginning of the second year, and at the completion of the course. Diploma, \$10.00, payable when the conferring of the degree has been recommended by the Faculty. Laboratory fees will be proportioned to the cost of materials consumed and use of apparatus. The master's degree will not be conferred upon the candidate until all his fees have been paid, or satisfactory arrangement has been made with the Treasurer for their payment.

The Departments of Instruction

RHETORIC

Professor GILMORE and Assistant Professor SLATER.

1 Rhetoric and Composition. The structure and the style of typical examples of narration and description are examined in detail to acquire the elementary principles of narrative and descriptive art. Practice in composition is obtained in short weekly themes on subjects suggested by experience and observation.

Professor Slater, 2 hours. I.
Prescribed for all Freshmen.

2 Expository Composition. The course consists in a detailed study of the structure and the style of typical specimens of exposition; the making of an outline based on a masterpiece of exposition; and the collection and arrangement of material for composition; fortnightly essays, and consultations.

Rhetoric 1 prerequisite.
Professor Slater, 2 hours. II.
Prescribed for all Freshmen.

3 Argumentative Composition. The structure and the style of typical arguments are analyzed and the elementary principles of argumentation discussed. One brief is required, based on a masterpiece of argumentation; also two essays, preceded by briefs, followed by consultations.

Rhetoric 1 and 2 prerequisite.
Professor Slater, 2 hours. III.
Prescribed for all Freshmen.

4 English Composition. Three essays (800 to 1200 words). Each student meets the instructor in person by appointment and discusses his essay in detail with him.

Professor Slater, I, II, III.
Prescribed for all Sophomores.

5 Junior Essay Work. An essay of not less than 800 nor more than 1200 words—the theme to be chosen from a list to be submitted to each class—is required of each member of the Junior class during the second term and another during the third term. These essays will be criticized in the presence of their authors.

Professor Gilmore, II, III.

Prescribed for all Juniors.

6 Daily Themes and Prose Style. Advanced course. This course aims to train students in clearness, facility, and individuality of expression. Frequent practice in various kinds of composition is given with personal consultations; and several selections from such writers as Arnold, Newman, Ruskin, and Stevenson are studied somewhat in detail, with lectures and discussions.

Rhetoric 1, 2, 3, prerequisite.

Professor Slater, 2 hours, credited as 3. I.

7 Class Room Debates—participation in which is required of each candidate for a degree. In connection with these debates practical instruction is given in argumentation, with special attention to the preparation of briefs.

Professor Gilmore, 2 hours. I.

Prescribed for all Juniors.

8 Senior Orations. Two orations of not more than 1000 words, to be criticized in the presence of the author, revised by him, and rehearsed before delivery.

Professor Gilmore, I, II.

Prescribed for all Seniors.

9 Advanced Work in Debate. Those students who have shown especial proficiency in debate during the first term of the Junior year, will be permitted to elect advanced work in debate, for one hour a week, in place of the essay scheduled for the second term Junior; and also, if their work in debate is still satisfactory, in place of the oration scheduled for the second term Senior. Professor Gilmore, 1 hour. II.

ELOCUTION

Professor GILMORE

- 1 **The Theory of Elocution.** Lectures. 1 hour. I.
Prescribed for all Freshmen.
- 2 **Practical Training.** The class is divided into five sections, each of which meets the instructor one hour a week. 1 hour. II.
Prescribed for all Freshmen.
- 3 **Class Room Declamations,** with private rehearsals. 1 hour. III.
Prescribed for all Freshmen.
- 4 **Debates**—See Rhetoric 7 and 9.
- 5 **Orations**—See Rhetoric 8.

ENGLISH

Professor GILMORE and Assistant Professor SLATER.

- 1 **English Literature.** The English people, their language and early literature. Lectures and text book. Professor Gilmore, 2 hours. I.
Prescribed for all Sophomores.
- 2 **English Literature,** from the Renaissance to the present day. Lectures and text book. Professor Gilmore, 2 hours. II.
Prescribed for all Sophomores.
- 3 **English Poetry from Spenser to Wordsworth.** Class room readings and criticisms covering the period from Spenser to Wordsworth. Professor Gilmore, 5 hours. III.
- 4 **Chaucer.** Selections from the Canterbury Tales and minor poems. Introductory and supplementary work in Middle English grammar. English 7 and 8 are advised in preparation, but are not essential. Professor Slater, 3 hours. III.
- 5 **American Literature.** Lectures, critical readings, and class room dissertations. Professor Gilmore, 3 hours. II.

6 Shakspeare. Lectures on the principal plays with required readings. Professor Gilmore, 2 hours. II.

7 Old English (Anglo-Saxon) Prose and Poetry. An elementary course, designed to introduce the student of English to the historical study of the language and to the beginnings of English poetry and prose.

Prerequisite for English 8.

Professor Slater, 5 hours. II.

8 Béowulf. This pagan epic is read with attention to text, metre, literary, and archæological interests.

Professor Slater, 3 hours. III.

9 General and Comparative Literature and the Development of English Prose. Lectures and critical readings covering the period from Mandeville to Macaulay.

English 1 and 2 prerequisite.

Omitted in 1906, offered for 1907.

Professor Gilmore, 4 hours. I.

10 Recent English and American Poetry. Lectures on the nature of poetry; classicism, romanticism, and realism; Tennyson and Browning. Critical readings from Tennyson and Browning.

Offered for 1906, omitted in 1907.

English 1 and 2 prerequisites.

Professor Gilmore, 4 hours. I.

11 The English Bible. Lectures and class room readings, with collateral readings.

Professor Gilmore, 3 hours.* I, II, III.

*NOTE. The class will meet one hour a week throughout the year, credit being given only at the close of the third term.

COURSES FOR THE MASTER'S DEGREE

21 Critical Readings in English Literature following the Line of Development.

Professor Gilmore.

22 English Literary Criticism, from Sidney and Puttenham to the present day.

Professor Gilmore.

GREEK

Professor KENDRICK

1 **Lysias or Herodotus.** The translation of five orations of Lysias, or portions of Herodotus, Books VI and VII, is supplemented by prose composition and discussion of important principles of Greek syntax.

5 hours. I.

Prescribed for classical Freshmen.

2 **Euripides.** Iphigenia among the Taurians. Translation and literary study are supplemented by weekly papers on the Greek theatre and the origin and development of the Greek drama and its influence upon subsequent dramatic literature. One hour a week is given to the study of the constitutional history of Greece down to the death of Pericles, B. C. 429.

5 hours. III.

Prescribed for classical Freshmen.

3 **Plato.** The Apology, Crito, and portions of the Phædo. These dialogues are studied for their literary interest and for their vivid picture of Socrates as a man and a moral teacher. Study of the constitutional history of Greece down to the death of Alexander the Great, B. C. 323.

5 hours. II.

Prescribed for classical Sophomores.

4 **Epic or Lyric Poets.** Homer's Odyssey, or selections from the earlier Greek lyric poets, including Solon, Theognis, Archilochus, Alcæus, Sappho, Anacreon, also odes of Pindar, Bacchylides, Sophocles, and several of the idylls of Theocritus. Lectures on the development of Greek poetry and the translation of significant writings of poets not read in any scheduled course.

Offered for 1906, omitted in 1907.

5 hours. II.

5 **Demosthenes.** Oration on the Crown, or the Philippics. Special attention is paid to the oral rendering. Lectures on the development of Greek prose literature. Selec-

tions from other Attic orators and prose writers are also translated.

Omitted in 1906, offered for 1907.

5 hours. III.

6 Greek New Testament. Translation and study of Gospels or Epistles. Also translation and discussion, one hour a week, of passages from early Christian and non-Christian writings, that preserve interesting historical testimony or tradition concerning Christ and the Apostles. Lectures on the political and religious history of the Jews and of Palestine, from the reign of Herod the Great to the final overthrow of the nation under Hadrian.

Offered for 1906, omitted in 1907.

5 hours. III.

7 Plato. Selections from the Republic, or Phædo. Lectures on the history of Greek philosophy from Thales to Plato, with special reference to some fundamental principles of modern philosophy and physics.

Offered for 1906, omitted in 1907.

5 hours. I.

8 Aristotle. Poetics, or Nicomachean Ethics, Books I-III, and x. Discussion of the literary and ethical teachings of Aristotle. Lectures on philosophy, devoted especially to the study of Plato and Aristotle, and to the ethical systems of the Stoics, Epicureans, and Sceptics.

Omitted in 1906, offered for 1907.

5 hours. I.

9 Hellenistic Greek. First Maccabees, and selections from Josephus's Antiquities and Wars of the Jews, are studied with lectures and text-readings on the political and religious history of the Jews and of Palestine from the Babylonian captivity to the death of Herod the Great. Special study is given to the conquest of the East by Alexander the Great and the consequent diffusion of Hellenic civilization, the history of the Greek empires founded by Alexander's successors in the Hellenistic age, and the final

conquest and organization of the Greek world under the Empire of Rome. The political, rather than the religious, position of the Jews among nations is emphasized, as a historical introduction to the study of the New Testament and the time of Christ. Omitted in 1906, offered for 1907.

5 hours. III.

10 Greek Archæology. An outline history of the development of Greek architecture and sculpture. Special study of the topography and antiquities of Athens and Olympia based on Pausanias, Books I and v. A knowledge of Greek is useful, but not essential for this course.

Offered for 1906, omitted in 1907.

5 hours. II.

II Greek Reading. Courses organized by special arrangement with the instructor, the classes meeting one hour a week to read texts not studied in any of the other courses. Such readings have included selections from the *Memorabilia* of Xenophon, Cebes's Tablet, Lucian, Thucydides, Aristotle's Constitution of Athens, Aristophanes.

For Freshmen II and III, credited as a 2 hour course.

For Sophomores, Juniors, or Seniors, I, II, and III, credited as a 3 hour course.

COURSES FOR THE MASTER'S DEGREE

21 Readings in Greek Literature.

22 History of the Athenian State.

23 Greek Archæology, advanced course.

24 Greek Biblical Literature and extra-biblical documents related to the Old and New Testaments.

LATIN

Professor BURTON and Doctor HOEING

I Livy. Portions of Books I and XXI. The reading of the text is accompanied by exercises in Latin composition

illustrating the most important syntactical principles. Instruction is given regarding the historical character of the Roman legends and the origin of Roman political institutions in connection with the first book of Livy, and upon the period of conquest in connection with the twenty-first book.

Dr. Hoeing, 5 hours. II.

Prescribed for classical and philosophical Freshmen.

2 Horace. Selections from the Odes, Satires and Epistles. The literary study of the author is made prominent, with the aim of training the student to observe and reproduce in his own translation the poetical qualities of the original. Oral reading of the text, exhibiting both the thought and the metrical form, is constantly practised. A few odes are memorized and written translations are frequently required. Much attention is given to the poet's allusions to mythology, history, literature, and life. The history of the last century of the Republic is studied in connection with the course.

Professor Burton and Dr. Hoeing, 5 hours. I.

Prescribed for classical and philosophical Sophomores.

3 Tacitus and Juvenal. The Agricola and Germania and selected Satires. This course includes the study of the political and social life and the literary character of the Early Roman Empire. Special instruction is given regarding the Roman system of government under the Empire. The course is terminated by a few lectures on the history of Latin literature, showing the relation of literature to public and private life, the general character of each literary period, and the place of each of the principal authors.

Professor Burton and Dr. Hoeing, 5 hours. III.

Prescribed for classical and philosophical Sophomores.

4 Catullus, Tibullus, and Propertius. The study of these authors is literary and comparative, including the indebtedness of the Roman to the Greek lyrists and elegists, the

points of contrast between the Republican and Augustan poetry, and a comparison of the selections read with similar passages in other Latin poets. Omitted in 1906, offered for 1907.

Professor Burton, 5 hours. I.

5 Latin Rhetoricians. Portions of Quintilian, Books x and xii, with selections from Cicero's *De Oratore*, or Tacitus's *Dialogus de Oratoribus*. The course treats the art of oratory as taught and practised by the Romans. The selections read bring before the student both the ideals of Roman oratory and numerous practical maxims still useful to a young writer and speaker. At the end of the course one or more orations of Cicero are read, without translation, and analyzed with reference to their rhetorical structure.

Offered for 1906, omitted in 1907.

Professor Burton, 5 hours. I.

6 Roman Philosophy. Selections from Lucretius, or Cicero, or Seneca. Lectures are given upon the schools of philosophy best known to the Romans, in which the various systems are compared with each other and with modern views. The selections read exhibit particularly the physical theories of the Epicureans and the ethical teachings of the Stoics.

Professor Burton, 5 hours. II.

7 Plautus and Terence. The careful study of two plays, one from each author, together with the rapid reading of a third. Attention is paid to the formal, syntactical, and metrical peculiarities of ante-classical Latin, and lectures are given on the ancient drama in general, but particularly on the New Comedy of the Greeks and its Roman imitations, with frequent reference to modern analogies.

Dr. Hoeing, 5 hours. III.

Optional for classical Freshmen.

8 Teachers' Course. A study of methods of teaching Latin, with practical exercises in instruction conducted by members of the class, under direction and criticism. The

beginner's course is first taken up, and is followed by one or more of the authors read in preparation for college. A thorough review of Latin forms and syntax is required of the class.

Professor Burton, 3 hours. III.

Open to Seniors only.

9 Advanced Composition. A discussion of selected topics in Latin syntax, together with translation into Latin of connected passages of English prose. Adapted specially for those who expect to teach Latin.

Dr. Hoeing, 2 hours. III.

Open to Seniors only.

10 a Latin Epigraphy. Instruction is given mainly through lectures, accompanied by careful reading and interpretation of representative inscriptions. The members of the class present papers embodying the results of investigation along prescribed lines.

Dr. Hoeing, 3 hours. I.

Open to Seniors only.

10 b Latin Palæography. Lectures form the basis of the work, and the students are required to become familiar with the various types of Latin script by reading and copying facsimiles of classical manuscripts. Several lectures are given on the elements of textual criticism and emendation.

Dr. Hoeing, 1 hour. II.

Open to Seniors only.

11 Historical Latin Grammar. A series of lectures on the history of Latin forms, including pronunciation, phonetic laws, declension, and conjugation. Latin forms are studied comparatively as well as historically; hence a knowledge of Greek and also of Sanskrit Grammar (see Philology, course 1) is a useful though not indispensable preparation for this course.

Professor Burton, 5 hours. II.

Open to Seniors only.

12 Roman Topography and Architecture. Lectures are given on the topography of ancient Rome, and the public and domestic architecture of Rome and Pompeii, with the use of illustrative materials, as photographs, engravings, and stereopticon views. Papers are presented by the members of the class on assigned topics relating to the public and private life of the Romans.

Professor Burton, 5 hours. III.

13 Sight Reading. Courses of reading in easy authors, with the special aim of gaining practice in oral reading at sight without formal translation. The texts most frequently read are *a* Cicero's Letters; *b* Pliny's Letters; *c* Cicero's Lælius and Cato Major; *d* Cicero's Brutus; *e* Aulus Gellius; *f* Ovid; *g* Phædrus and Martial; *h* Vergil's Eclogues and Georgics.

Professor Burton or Dr. Hoeing, 1 hour.

For Freshmen II and III, credited as a $\frac{1}{2}$ hour course.
For Sophomores, Juniors or Seniors, I and II, credited as a 2 hour course.

COURSES FOR THE MASTER'S DEGREE

21 Readings in Latin Literature, adapted to the aim and tastes of the student.

22 Historical Latin Syntax. Course II in Historical Grammar should precede.

23 Advanced Latin Epigraphy and Palæography.

24 Roman Constitutional History.

25 Roman Archæology. Readings in Latin texts.

PHILOLOGY

Professor BURTON

1 Sanskrit Grammar. Whitney's Grammar with elementary instruction in the comparative grammar of the Indo-European languages.

5 hours. II.

Open to Juniors only.

2 Sanskrit Readings. Selections from Lanman's Sanskrit Reader, with studies in comparative grammar.

2 hours. III.

Open to Juniors only.

Course 2 may be continued through the Senior year, 1 hour a week, by arrangement with the instructor, to be credited as a 3 hour course.

3 Comparative Philology. A general introduction to the science of language. Instruction is given by lectures and discussions based on readings by the class in standard works.

2 hours. I.

All courses in philology may be taken by graduate students.

GERMAN

Assistant Professor SHEDD

1 Elementary German a. Duerr's Essentials of German Grammar. Instruction in pronunciation, grammatical forms, and general rules of syntax. Reading of selections from simple German prose literature. Practice in translation from English into German. Colloquial exercises.

5 hours. I.

Prescribed for classical Freshmen.

2 Elementary German b. Select readings from modern prose, poetry, and the drama (e. g., Stern's *Geschichten vom Rhein*, Meissner's *Aus deutschen Landen*, Freytag's *Die Journalisten*, Benedix's *Der Prozess* or others of the books suggested for elementary German on page 43), with particular attention to the laws of word-formation and sentence structure.

5 hours. II.

Prescribed for classical Freshmen.

3 Intermediate German. Readings from modern prose, poetry, and drama of a more difficult grade than

the text read in German 2. Continued grammatical drill, and translation from English into German based on the texts used.

5 hours. I.

Prescribed for philosophical and scientific Freshmen who have not offered three years of German for entrance.

Also 5 hours. III.

Optional for classical Freshmen.

4 Schiller. A literary study of the more important writings of Schiller, not previously read, together with a survey of the author's life and times.

5 hours. I.

Prescribed for philosophical and scientific Freshmen who have offered three years of German for entrance.

5 Lessing. A literary study of the more important poetical works of Lessing, not previously read, together with a survey of the author's life and times.

5 hours. III.

Prescribed for philosophical Freshmen.

6 Goethe, Selections. Readings from the works of this author, exclusive of Faust, together with a study of his life and times.

Omitted in 1906, offered for 1907.

5 hours. II.

7 Goethe, Faust. Selections from the first and second parts of Faust, with lectures on the meaning of the drama and a study of the Faust literature.

Offered for 1906, omitted in 1907.

5 hours. II.

8 Advanced Composition and Conversation. A course intended specially for teachers. Thorough drill in syntax, sentence structure, and pronunciation. Exercises in conversation, dictation, and composition.

German 3 or 5 prerequisite.

5 hours. III.

9 Scientific German. Readings in current scientific literature, with a more advanced study of German word-formation.

5 hours. II.

Prescribed for scientific Freshmen.

- 10 **German Comedy.** Selections from modern writers of comedy. Credited as a 3 hour course when completed.
1 hour. I, II, III.

ROMANCE LANGUAGES

Assistant Professor MOORE

FRENCH

1 **Elementary French a.** Fraser and Squair's French Grammar. Easy readings in French prose. Instruction in pronunciation and grammatical forms. Colloquial exercises.

5 hours. I.

Prescribed for philosophical Freshmen.

Also 5 hours. II.

Prescribed for classical Sophomores.

2 **Elementary French b.** Translation and reading at sight of modern works of fiction and drama. A systematic course in composition, and further study of syntax and grammar.

5 hours. II.

Prescribed for philosophical Freshmen.

Also 5 hours. III.

Prescribed for classical Sophomores.

3 **Modern French Prose and Poetry.** Selections from modern historical prose. Chronological study of French lyric poetry. Lectures on important epochs of French literature. Short essays on prescribed subjects.

5 hours. III.

Prescribed for scientific Freshmen.

4 **Scientific French.** Designed for scientific students who wish to acquire some familiarity with French scientific terms.

2 hours. III.

Prescribed for scientific Sophomores.

5 **French Drama.** Representative works of the Clas-

sical, Romantic, and Modern schools of dramatic composition. Study of French versification. Lectures on the development of the drama.

5 hours. I.

6 Advanced Composition. Exercises in dictation. Opportunities for conversation. Careful drill in pronunciation.

French 3 prerequisite.

3 hours. II.

7 Old French. Reading of Old French texts. Explanation of principles of Old French morphology and philology. Lectures on various forms of literary production of the Middle Ages.

3 hours. I.

SPANISH

1 Elementary Spanish. Grammar and colloquial exercises with readings in simple prose.

Offered for 1906, omitted in 1907.

5 hours. I.

2 Select Readings. Translation and reading at sight of modern works of history, fiction or drama. A systematic course in composition, and further study of syntax and grammar.

Omitted in 1906, offered for 1907.

5 hours. II.

3 Classic Prose and Poetry. Special attention to the life and writings of Cervantes, Calderon and Lope de Vega. Study of Spanish lyric poetry and principles of versification.

Omitted in 1906, offered for 1907.

3 hours. III.

ITALIAN

1 Elementary Italian. Grammar and colloquial exercises with readings in simple prose.

Omitted in 1906, offered for 1907.

5 hours. I.

2 Select Readings. Translation and reading at sight of works of history, fiction or drama. A systematic course in composition and further study of syntax and grammar.

Offered for 1906, omitted in 1907.
5 hours. II.

3 Classic Prose and Poetry. Special attention to the life and writings of Dante and Petrarca. Study of the *Divina Commedia*, *Vita Nuova*, and poems of Petrarca. Possibly selections from Boccaccio will be read.

Offered for 1906, omitted in 1907.
3 hours. III.

MATHEMATICS

Professor GALE, Mr. WATKEYS and Mr. LAMSON.

I Advanced Algebra. The topics treated are, properties of quadratic equations, graphs, inequalities, variation, permutations and combinations, probability, complex numbers, mathematical induction, theory of equations, solution of numerical equations, logarithms, partial fractions, and determinants. Text book: Hawkes, *Advanced Algebra*.

Professor Gale and Mr. Watkeys, 4 hours. I.
Prescribed for all Freshmen.

2 Plane Trigonometry. A course in elementary trigonometric analysis and the solution of triangles. Scientific Freshmen in group B are put in a special section which covers spherical as well as plane trigonometry. Text book: Lyman and Goddard, *Plane and Spherical Trigonometry*.

Professor Gale, Mr. Watkeys, and Mr. Lamson, 4 hours. II.
Prescribed for all Freshmen.

3 Solid Geometry. Considerable attention is given to the numerical computation of areas and volumes. Text book: Wells, *Essentials of Plane and Solid Geometry*.

Professor Gale and Mr. Watkeys, 4 hours. III.
Prescribed for all Freshmen.

4 Plane Analytic Geometry. A short course which presents the fundamental concepts of the subject. The topics considered are the relations between curves and equations, polar coordinates, transformation of coordinates, and applications to equations of the first and second degrees. Text book: Smith and Gale, Introduction to Analytic Geometry. Mr. Watkeys and Mr. Lamson, 3 hours. I.
Prescribed for all Sophomores, except scientific group B.

4a Plane and Solid Analytic Geometry. Plane analytic geometry is considered more completely in this course than in Mathematics 4 and the elements of solid analytic geometry are also taken up. *This course must be taken by those intending to elect Mathematics 5 and 6.* Text book: Smith and Gale, Elements of Analytic Geometry. Professor Gale, 5 hours. I.

Prescribed for scientific Sophomores in group B.

5 Differential Calculus. Especial attention is given to the elementary applications. Text book: Granville, Differential and Integral Calculus. Mathematics 4a prerequisite. Professor Gale, 5 hours. II.

Prescribed for scientific Sophomores in group B.

6 Integral Calculus. A continuation of course 5, which includes an introduction to differential equations.

Professor Gale, 5 hours. III.

Prescribed for scientific Sophomores in group B.

7 Analytic Mechanics. The course deals principally with the following topics: projectiles, the pendulum, harmonic motion, centroids, moments of inertia, composition and resolution of forces, graphic methods, equilibrium, friction, and virtual work. The course extends through

the year but credit will be given for the work of each term.

Mathematics 5 and 6 prerequisite.
Professor Gale, Mr. Watkeys and Mr. Lamson, 3 hours¹. I, II, and III.

8 Descriptive Geometry. This course is offered with special reference to students who expect to pursue technological studies after leaving college. The work consists of two parts: (1) the theory of orthographic projection, including the intersection and development of surfaces, also shades, shadows and perspective; and (2) the construction of a set of plates illustrating these principles. Text book: Faunce, Descriptive Geometry.

Mr. Watkeys, 5 hours. III.
Prescribed for pretechnical students.

9 Historical and Critical Review of Elementary Geometry. Among the topics considered are the following: Systematic solution of "originals," famous problems of geometry, the elements of non-Euclidean geometry, of the foundations of geometry, and of the theory of geometrical transformations. Instruction will be given by lectures supplemented by papers prepared by members of the class. While the subject matter is of general interest, the needs of those intending to teach will receive especial attention. If time permits, topics from elementary algebra will be considered from the same point of view.

Omitted in 1905-6, offered for 1906-7.
Professor Gale, 2 hours. I, II, and III.

10a Theory of Functions of the Complex Variable; an introductory course which includes the necessary topics from advanced calculus.

Offered for 1906, omitted in 1907.
Mathematics 5 and 6 prerequisite.
Professor Gale, 5 hours. I.

11a Projective Geometry. The more important ideas

¹ In the spring term of 1906 this will be 5 hours as heretofore. In 1906-7, the first term will be devoted to analytic geometry, 2 hours, and 4 hours per week in the winter and spring terms will be given to mechanics.

of modern synthetic geometry will be developed. A knowledge of the elements of plane and solid geometry is all that is presupposed in this development.

Offered for 1906, omitted in 1907.

Professor Gale, 2 hours, II, and 3 hours, III.

12a Theory of Potential. This course is primarily intended for students of physics and electrical engineering.

Offered for 1906, omitted in 1907.

Mathematics 5 and 6 prerequisite.

Professor Gale, 5 hours. II.

COURSES FOR THE MASTER'S DEGREE

21 Theory of Functions.

22 Theory of Differential Equations.

23 Theory of Surfaces.

24 Continuous Groups of Point and Contact Transformations.

25 History of Mathematics.

Other courses will be offered as the occasion demands.

PHYSICS

Professor LAWRENCE and Mr. MINCHIN

A General Course. The course aims to cover the laws and phenomena of mechanics, sound, heat and light. Lectures and recitations.

Mathematics 1 and 2 prerequisite.

Professor Lawrence, 5 hours. I.

Prescribed for all Sophomores who did not offer physics for entrance.

B General Laboratory. A group of elementary experiments chosen to illustrate the principles studied in Physics A.

Mr. Minchin, 2 hours, fee \$3.50. II.

Prescribed for classical and philosophical Sophomores who do not elect Physics I, 2, or 3, or Mathematics 5.

NOTE. In all laboratory courses at least two hours of laboratory work are required to secure one hour of credit.

1 Mechanics and Heat. Two lectures, one recitation, two laboratory periods a week.

Physics A or entrance physics and Mathematics 1 and 2 prerequisite.

Mr. Minchin, 5 hours, fee \$3.50. I.

Prescribed for all scientific Sophomores.

2 Sound and Light. Two lectures, one recitation, two laboratory periods a week.

Physics A or entrance physics and Mathematics 1 and 2 prerequisite.

Mr. Minchin, 5 hours, fee \$3.50. III.

Prescribed for all scientific Sophomores.

3 Electricity. Two lectures, one recitation, and two laboratory periods a week.

Physics A or entrance physics and Mathematics 1 and 2 prerequisite.

Professor Lawrence, 5 hours, fee \$3.50. II.

Prescribed for all scientific Sophomores.

4 Dynamo and Motor. This course includes the testing of various commercial instruments; the determination of dynamo and motor curves; tests of efficiency of dynamos and motors; determination of magnetic qualities of iron and steel. Some time may be devoted to accumulators, to transformers, and to arc and incandescent lamp photometry. Two lectures, one recitation, and two laboratory periods a week.

Physics 1, 2, and 3 prerequisite.

Professor Lawrence, 5 hours, fee \$5.00. III.

Prescribed for all scientific Sophomores in group B.

5 Physical Measurements. Laboratory experiments in mechanics, heat, sound, light, and electricity, any part of which may be taken by a student who has completed the corresponding subject in courses 1, 2, or 3. Groups of experiments are assigned to meet the individual needs. The experiments are chosen to illustrate the laws of physics, the more exact methods of physical experimentation, and the adjustment and use of instruments of precision. Given throughout the year, one or more terms may be elected.

Physics 1, 2, or 3 prerequisite.

Professor Lawrence and Mr. Minchin, 5 hours. I, II, III.

10 hours prescribed for scientific Juniors in group B.

6 Alternating Currents. Theory and practice, continued throughout the year, and designated 6a, 6b, and 6c, for the different terms. The first term is devoted to the analytical development of alternating current equations, with a view to their application in the laboratory during the second term. Graphical treatment of these equations will be studied in connection with the laboratory work in the second term. Laboratory work may be continued through the third term.

The measurements may include the determination of self and mutual induction; capacity; instantaneous electromotive force curves; efficiency tests of alternating current generators, motors, and transformers, including the mercury arc rectifier and the study and standardization of alternating current measuring apparatus by means of the Kelvin balance.

Mathematics 5 and 6 prerequisite.

Professor Lawrence, 3 hours. I, II, and III.

Fee \$1.50 in II, and \$2 in III.

8 Practical Photography. Intended for students specializing in science.

Chemistry 1, 2, Physics 1, 2, 3, prerequisite.

Professor Lawrence, 3 hours, fee \$5.00. III.

9 Theory of Electricity. Text book: J. J. Thomson, Elements of Electricity.

Mathematics 5 and 6 prerequisite.

Professor Lawrence, 5 hours. II.

10 Electrochemistry. Modern theories and recent work, including dissociation, conductivity, electromotive force, decomposition potentials, reaction velocities, etc.

Mr. Minchin, 5 hours, fee \$7.50. I.

NOTE. In all laboratory courses at least two hours of laboratory work are required to secure one hour of credit.

COURSES FOR THE MASTER'S DEGREE

Advanced work in physical theory and practice will be arranged for graduate students in accordance with their attainments and special interests.

MECHANICAL DRAWING AND SHOP WORK

Students in the college have opportunity to take courses at the Mechanics Institute in Rochester in mechanical drawing and shop work (both wood and iron). A circular of the Institute describing the courses offered may be had on application to the Registrar.

ASTRONOMY

Mr. MINCHIN

I General Astronomy. The aim of this course is to give the student a general knowledge of descriptive and physical astronomy. Especial pains are taken to introduce into the course from year to year the most recent additions to our knowledge of the heavens. The work is based upon a text book, and is illustrated by the frequent use of instruments in the lecture room. Besides this, many evenings are spent with the Trevor telescope.

Physics 2 prerequisite.
5 hours. III.

CHEMISTRY

Professor LATTIMORE

I Theoretical and Descriptive. Instruction is given by means of text books and experimental lectures. These cover a study of the more important elementary and compound substances, the history of chemical theory and discovery, the uses of instruments of precision, and the solution

of chemical problems. A brief outline of organic chemistry is given with a study of some of the more important organic compounds. Written weekly reviews.

Prerequisite for Chemistry 2.
5 hours. III.

Prescribed for scientific Freshmen and for classical and philosophical Sophomores who have not offered chemistry for entrance.

NOTE. Students who offered chemistry for entrance, may qualify for Chemistry 2 by taking the written weekly reviews in Chemistry 1.

2 Qualitative Analysis. Laboratory work with lectures on laboratory methods. Qualitative determination of substances of unknown composition, leading to a classification of the elements into groups.

Chemistry 1 prerequisite.

3 Quantitative Analysis. Individual instruction in the laboratory in the quantitative determination of a graded series of compounds, selected to furnish command of the methods of gravimetric, volumetric and electrolytic analysis. Instruction in the calibration of instruments of precision.

Chemistry 2 prerequisite.

4 Quantitative Analysis continued. More advanced work in the quantitative determination of compounds and mixtures. The choice of substances will be governed by the particular interests of the individual students, covering such subjects as assaying and various branches of industrial chemistry.

Chemistry 3 prerequisite.

5 Organic Chemistry. For students who are preparing for the medical profession or for technical or industrial pursuits. Laboratory study of organic compounds, selected in accordance with the interests of the individual students, including such subjects as medical chemistry, pharmaceutical chemistry, toxicology, sanitary chemistry—the analysis of air, water, foods, and the detection of adulterations.

Chemistry 3 prerequisite.

Laboratory courses in chemistry cannot be defined for specific terms for the reason that under the system of

individual instruction different students progress very differently, and passage from one subject to the next may occupy less or more than a term. Advanced and special work may be so varied, according to the particular interests of individual students, that it is not practicable to organize it into courses by terms. A student may pursue chemistry in the laboratory, however, for three full years after the completion of Chemistry 1. The last terms for such a student will be devoted to the investigation of special problems offered by the line of work which he wishes later to pursue.

NOTE. Laboratory courses in chemistry are given throughout the year, with laboratory periods of two hours each, five days in the week, credited for 5 hours a term. Chemistry 2 may be elected in the first or second terms, but not in the third. Other laboratory courses may be begun in any term. Fee in all the laboratory courses in chemistry \$10, \$8, and \$7 a term for 5 hour, 3 hour, and 2 hour courses respectively.

COURSES FOR THE MASTER'S DEGREE

Advanced work in chemical theory and practice will be arranged for graduate students in accordance with their attainments and special interests.

BIOLOGY

Professor DODGE and Doctor MERRELL

1 Practical Biology: the Biology of the Cell. A comparative study of the morphology and physiology of the animal cell as exhibited in the protozoa, e. g., amœba, paramecium, and vorticella, and in cells isolated from the bodies of higher animals, as salivary, blood, and ciliated cells; and a corresponding study of plant cells as exhibited in yeast, protococcus, spores of fungi, pollen grains, and

spirogyra. Text books: Parker, Lessons in Elementary Biology; Dodge, Introduction to Elementary Practical Biology.

Dr. Merrell, 5 hours, fee \$5.00. I.

Prescribed for scientific Freshmen in groups A, C, D.

2 Practical Biology: the Biology of the Animal. A detailed comparative study of the structure and physiology of the following animals with a view to their relationships, development, evolution, adaptations, etc.: toilet and fresh-water sponges, grantia, hydra, campanularian hydroid, starfish, earth-worm, lobster, locust, fresh-water mussel, and frog. Text books the same as in Biology 1.

Biology 1 prerequisite.

Professor Dodge, 5 hours, fee \$5.00. II.

Prescribed for scientific Freshmen in group C.

3 Plant Ecology. A brief examination of the principal tissues of the higher plants—protective, supporting, conductive, nutritive, etc.—will serve as an introduction to the study of the relation of plants to their natural environment. Plants will be studied as far as possible in the field, in order to obtain a better understanding of their relation to water supply, soil, air, light, and other plants. This course is of special value to those who are planning to teach in high schools or academies. An additional hour of credit will be given to those who attend the regular field trips on Friday afternoon. Text book: Atkinson, College Botany.

Biology 4 must precede or accompany.

Dr. Merrell, 4 or 5 hours, fee \$3.00. III.

4 Systematic Botany. A course in the identification of plants. Ambitious students may, by doing extra work, obtain one or two hours of credit beyond the amount regularly assigned. Text books: Britton, Manual; and Gray, Lessons in Botany.

Dr. Merrell, 2 hours. III.

5 General Biology. A course of illustrated lectures on

the morphology, physiology, development, classification, distribution and evolution of plants and animals.

Prerequisite for Geology 4.

Professor Dodge and Dr. Merrell, 3 hours, II. 2 hours, III.

Credited as a 5 hour course.

Prescribed for all Sophomores.

6 Physiology. This course, though to a certain extent comparative, consists chiefly of work in human anatomy and physiology. Experiments performed by the students individually form a feature of the course. Text book: Martin, *The Human Body*, Advanced Course.

Professor Dodge, 5 hours, fee \$2.00. I.

Prescribed for all Seniors.

7 Bacteriology. A study of methods of sterilization, of preparing nutritive media, of obtaining pure cultures, of identifying specific forms, and of making inoculations, etc. The course is preparatory to the subsequent study of medicine, advanced chemistry, or sanitary engineering. Text book: Novy, *Laboratory Work in Bacteriology*, with references to the standard German, English and French authorities.

Chemistry 1 and 2 and Biology 1 and 6 prerequisite.

Professor Dodge, 5 hours, fee \$10.00. III.

Prescribed for scientific Juniors in group C.

8 Histology. A study of the microscopic anatomy of the cat, and comparison with tissues from the human body. The student obtains and prepares all his own specimens. The work includes fixing, hardening, embedding, sectioning, staining, and mounting specimens of tissues and organs according to recent methods. Text book: Böhm-Davidoff-Hüber, *Text Book of Histology*, with references to Piersol, Stöhr, Szymonowicz, and others.

Biology 1, 2, and 6 prerequisite.

Professor Dodge, 5 hours, fee \$10.00. I.

9 Embryology. A course in the development of the pig and of the chick. Text books: Minot, *Laboratory*

Text Book of Embryology; and Foster and Balfour, Elements of Embryology, with references to Marshall, Haddon, Hertwig, and others.

Biology 1, 2, 6, and 8 prerequisite.

Professor Dodge, 5 hours, fee \$10.00. II.

10 Morphology of Cryptogams. The plants studied are selected so as to illustrate the structure and relationships of the algae, fungi, liverworts, mosses and common ferns. Special attention will be paid to the study of the evolution of the plant body, the phenomena of fertilization, and the alternation of generations. A few days at the end of the term will be devoted to the morphology of the flowering plant, for the benefit of those who may not be able to take course 11. Text book: Atkinson, College Botany, with references to Goebel, Strasburger and others.

Biology 1 or 3 prerequisite.

Dr. Merrell, 5 hours, fee \$5.00. I.

11 Morphology of Phanerogams. A systematic study of the structure and life history of a series of plant types, together with lectures on the main lines of evolution, will form the basis for a scientific classification of the ferns and their allies, the gymnosperms, monocotyledons and dicotyledons. Special emphasis will be laid upon such topics as alternation of generations, heterospory, and the evolution of the seed and the flower. Text book: Atkinson, College Botany, with references to Coulter, Engler and others.

Biology 1 or 3 prerequisite.

Dr. Merrell, 5 hours, fee \$5.00. III.

12 Plant Physiology. A study of the fundamental vital processes of the plant, including experiments upon the maintenance of form, absorption from soil and air, conduction, transpiration, photosynthesis, respiration, nutrition, phenomena of growth, movement, etc. The course is in-

tended especially for those who propose to teach, or are interested in scientific agriculture or horticulture. Text book: Green, Vegetable Physiology.

Physics I, Chemistry I, and Biology I and 3 prerequisite.
Dr. Merrell, 5 hours, fee \$5.00. II.

13 Fungi and Fungous Diseases of Plants. Practical work in the collection and identification of fungi, especially those forms which are of economic importance; and an introduction to the study of plant diseases, as caused by vegetable parasites. References to standard literature.

Offered for 1906, omitted in 1907.

Biology I prerequisite. Biology 10 should be taken at the same time, if not earlier.

Dr. Merrell, 3 hours, fee \$5.00. I.

COURSES FOR THE MASTER'S DEGREE

- 21 Vertebrate Anatomy.
- 22 Mammalian Anatomy.
- 23 Cellular Biology.
- 24 The Biological Examination of Fresh Water.
- 25 Advanced Ecology.
- 26 Advanced Morphology.

GEOLOGY

Professor FAIRCHILD

1 Elementary Mineralogy and Petrology. A study of the more common minerals, with special attention to the rock-making species in their ordinary associations as rock masses. In the field and laboratory, practice is given in the observation of the physical characters of minerals, and in distinguishing between mineral species. The elements of crystallography and microscopical petrography are introduced. The latter part of the course will cover the composition, structure, origin, distribution, and classification of

the more common rocks. Text books: Dana, Manual of Mineralogy and Petrology; and Crosby, Tables for Determination of Common Minerals.

5 hours, fee \$2.00. II.

Prescribed for philosophical Sophomores, and scientific Sophomores in group D.

2 Elementary Geology. A general survey of the structure and history of the earth. The course begins with a study of the agencies which change the earth's surface, especially emphasizing the work of rivers and glaciers in western New York; then passes to a brief study of rock strata, mountain structure, and topographic forms; and closes with a concise survey of the earth's history, and the development of life through the geologic ages. Text book: LeConte, Elements of Geology.

5 hours. I.

Prescribed for classical and philosophical Seniors, and scientific Seniors in group C, who do not elect instead Geology 3 and 4.

3 Physical Geology. The geological forces and agencies, or the dynamics of the earth's crust; the interaction of internal heat and atmospheric agents; the effects of heat, frost, chemical forces, rain, rivers, glaciers, ocean, and organisms; the destruction, transportation, formation, and alteration of rocks; the origin of mountains, and continental movements; the phenomena of earthquakes, volcanoes, and geysers; and the structure of rocks and rock masses. The sedimentary rocks, glacial drift, and river and lake action, being well shown in the vicinity, will be the subjects of detailed field study. Text book: LeConte, Elements of Geology. Geology I recommended as a preparation.

5 hours. I.

Prescribed for scientific Juniors in groups A, D, and for scientific Seniors in Group B.

4 Historical (Stratigraphical) Geology and Paleontology. A study of the terrestrial and climatic changes through geologic time, the growth of the continent of North America, and the evolution of life as recorded in the suc-

cessive rock strata. Certain more important or more interesting fossils are especially studied, either as representative of life groups or as denotative of geological horizons; and the history of eminent groups of plants and animals is followed through the geologic record. The field study will of necessity be upon the strata and life of the Upper Silurian and Devonian Ages and the deposits of the Glacial Period. Text book: LeConte, Elements of Geology.

Geology 3 and Biology 5 prerequisite. Geology 1 recommended.

5 hours. III.

Prescribed for scientific Juniors in group D.

5 Meteorology. An elementary study of the atmosphere, with special attention to cyclonic storms. During January, February, and March, the cyclonic months, the class does practical work in weather observation and in forecasting. Text book: Waldo, Meteorology.

Physics 1 prerequisite.

3 hours. II.

Prescribed for scientific Juniors in groups C, D, and scientific Seniors in group B.

6 Physiography. The study of the surficial geology of western New York as illustrating physiographic development of land areas and topographic forms (Geomorphology). Text book: Davis, Physical Geography.

Geology 2 or 3 prerequisite.

2 hours. II.

Prescribed for scientific Juniors in groups C, D and scientific Seniors in group B.

These courses are specially desirable for those students who expect to teach in high schools.

7 Economic Geology. A theoretic study of the useful mineral products of the earth, followed by special study (with field-work) of the various economic products of western New York, such as: Medina sandstone, Niagara and Corniferous limestones, Portage and Chemung sandstones, the Waterlime and "Portland" cements, the clays and shales

used for brick, terracotta, etc.; the salt mines and brine wells; the gypsum quarries; the Clinton iron ores; the gas fields.

Geology 3 and Chemistry 1, 2 prerequisite; Geology 1 recommended.
5 hours. I.

Special courses are offered in the following branches to students who are prepared. The design of these courses is to give opportunity for study supplementary to the preceding regular courses. The work will consist of individual investigation pursued under the direction of the instructor.

- | | |
|--------------------------------|---------------|
| 8 Advanced Physical Geology. | 5 hours. II. |
| 9 Advanced Historical Geology. | 5 hours. III. |
| 10 Paleontological Geology. | 5 hours. III. |
| 11 Glacial Geology. | 5 hours. I. |

COURSES FOR THE MASTER'S DEGREE

- 21 Dynamical and Structural Geology of Stratified Rocks—especially in Western New York.
- 22 Geographical Geology of Western New York.
- 23 Canyons of the Genesee River.
- 24 Buried Valleys in Western New York.
- 25 Irondequoit Embayment.
- 26 Lake Iroquois History.
- 27 Niagara Strata and Fossils.

HISTORY AND POLITICAL SCIENCE

Professor MOREY

Instruction in the political and social history of Greece and Rome is given in connection with courses 2, 3, and 9 in the department of Greek; and courses 1, 2, and 3 in the department of Latin.

- 1 The Middle Ages. A study of the causes of the

decline of the Roman Empire; the Roman, German, and Christian contributions to mediæval society; the political and social character of the new Germanic kingdoms; the recovery of the Eastern Empire under Justinian; the rise and extension of the Mohammedan power; the political system of Charlemagne and its relation to the Church; the rise of feudalism, the Holy Roman Empire of Germany, the ecclesiastical supremacy and the crusading spirit; together with the influence of these movements upon the civilization of Europe. Attention is given to the historical geography of Europe and the drawing of historical maps. Text book: Stillé, *Studies in Mediæval History*. 5 hours. I.

Prescribed for all Juniors.

2 The Modern States System. The causes leading to the transition from the mediæval to the modern state; the enfranchisement of the middle classes; the growth of representative government; the consolidation of modern national monarchies; the political consequences of the Reformation, the rise of the "balance of power" and the European colonial system; the growth and spread of modern constitutionalism, resulting from the three great political revolutions of England, America, and France, with a comparative study of the existing constitutions. Text book: Wilson, *The State*.

5 hours. II.

Prescribed for all Juniors.

3 Constitutional Law. A study of the constitutional law of the United States as a federal system of government, comprising the organic law of the central government and that of the several states; the distribution of political powers between the federal and state governments; and the interpretation of constitutional powers and rights, as illustrated by cases selected from the reports of the United States Su-

preme Court. Text book: Cooley, Principles of Constitutional Law.

5 hours. I.

Open to Seniors only.

4 **History and Principles of the Roman Law.** A discussion of the general principles of positive law; the origin of legal rights and procedure; the historical development of the Roman civil law from the time of the XII Tables; an exposition of its main principles as embodied in the Institutes of Gaius and Justinian; and the influence of the Roman law upon the modern civil law and the common law of England. Text book: Morey, Outlines of Roman Law.

5 hours. II.

Open to Seniors only.

5 **International Law and Diplomacy.** The history of the international relations of modern European states; the growth of the science of international law since the time of Grotius; together with a discussion of the principal rights and duties which are at present recognized as binding between states in time of peace and of war. Special attention is paid to the history of American diplomacy. Text book: Davis, Outlines of International Law.

5 hours. III.

Open to Seniors only.

The Junior Historical Society. This organization of the members of the Junior class has had a continued existence for several years. Its object is to furnish to students specially interested in historical investigation an opportunity for coöperation and original work. Topics relating to the constitutional history of the American colonies have usually been selected for this work not only on account of the intrinsic interest which attaches to these topics, but also on account of the relatively large facilities afforded by the library for the study of the colonial institutions of America.

The society is organized at the beginning of the second term of the Junior year.

Credit for 1 hour will be given to students who satisfactorily perform this work.

COURSES FOR THE MASTER'S DEGREE

- 21 **Contemporary European History.**
- 22 **Political Science.**
- 23 **Comparative Constitutional Law.**
- 24 **The English Constitution.**
- 25 **The United States Constitution.**
- 26 **The Swiss Constitution.**
- 27 **General Jurisprudence.**
- 28 **The Civil Law.**
- 29 **The Common Law.**
- 30 **International Law.**

POLITICAL ECONOMY

Professor MOREY

1 **General Economics.** In this course attention is paid to the history of economic theories as represented by the policy of the mercantilists, by the physiocratic school, by Adam Smith and the English individualist school, by Marx and the German socialist school, by Roscher and the modern historical school. Care is taken to distinguish between the general scientific laws which underlie the phenomena of wealth and which rest in the constitution of nature and man, and the practical application of these laws which under special conditions are brought within the economic functions of the state. Text book: Ely, Bullock, or Gide.

2 **Special Economic Topics.** In this course special topics in the various branches of economic science are assigned to the different members of the class, and are made

the subject of original investigation, so far as this is possible. The results of these investigations are presented to the class in the form of oral dissertations, accompanied by analytical synopses and bibliographical lists, the analyses and dissertations being made the subject of class room discussion and criticism.

1 and 2 given conjointly, 5 hours. III.

Prescribed for all Juniors.

COURSES FOR THE MASTER'S DEGREE

- 21 Economic Theory and Method.
- 22 English Economic History.
- 23 American Economic History.
- 24 Recent Economic History.
- 25 Capital and Labor.
- 26 Problems of Distribution.
- 27 Socialism.
- 28 Finance.
- 29 Bimetallism.
- 30 Economic Functions of the State.

PHILOSOPHY

Professor FORBES

1 Elementary Psychology. The course includes: (1) A general treatment of the phenomena of mind by a method which is chiefly introspective and analytic, and involves constant reference to the psychological origin of philosophical and pedagogical problems; (2) A special study of the postulates and methods of physiological, experimental, genetic and abnormal psychology with a view to determining the place and significance of these modes of investigation in the science as a whole.

5 hours. I.

Prescribed for all Juniors.¹

¹ Students who do not wish to take Philosophy 4 and 6 may postpone Philosophy 1, 2, and 3 to Senior year, provided they take Biology 6 in Junior year.

2 Logic. The aim is to give the elements of a philosophy of method with a view to grounding the student in the fundamental laws of the investigation and organization of knowledge in all departments. Formal logic is reduced to a subordinate position among the forms of method, and equal importance is attached to mastery by the student of the methodology of physical, social, and philosophical science.

5 hours. II.

Prescribed for all Juniors.

3 Elementary Ethics, including discussion of the moral agent, moral law, and moral action, classification of rights and duties, exercises in casuistry, and study of contemporary problems. The method is first analytical, then historical and critical, and finally constructive.

5 hours. III.

Prescribed for all Juniors.

4 Introduction to Philosophy (Metaphysics). Elementary studies in the problems and methods of metaphysics, emphasizing especially the philosophic grounds of theistic belief, and serving as a preparation for course 6. The method employed is designed to develop the powers of concentrated and independent thinking, and presents the material in the form of a logically connected series of problems, eliciting tentative solutions, and then eliminating error by criticism.

Philosophy 1, 2, and 3, prerequisite.

5 hours. I.

Open to Seniors only.

5 History of Ancient Philosophy, including the interpretation of selections from the works of Plato and Aristotle, with lectures by the instructor, and theses prepared by the students, so arranged as to give a connected outline of Greek speculative thought. This course forms a part of courses 7 and 8 in the department of Greek.

See page 87.

6 History of Modern Philosophy. The development

of modern speculative thought is traced from the Renaissance to the present time, with analysis and criticism of leading systems. The text book is supplemented by lectures, theses, and discussions.

Philosophy 4 prerequisite.
5 hours. II.

Open to Seniors only.

7 Institutes of Education, including a comprehensive survey of the data of educational theory and method, the deduction or induction of fundamental principles, and their application to the practical problems of the teacher.

5 hours. II.

Prescribed for candidates for teachers' certificates.

(See page 76.)

8 History of Education, tracing the development of the most important educational institutions, theories, and methods, with interpretation of their significance for modern pedagogy. The work is supplemented by special study of selected periods and theories, with written theses.

5 hours. III.

Prescribed for candidates for teachers' certificates.

(See page 76.)

9 Readings in Philosophy, designed to introduce the student to the philosophical vocabulary and literature in German or French. Meetings two hours once a week.

1 hour credited as 2 hours on the completion of the work. II, III.

COURSES FOR THE MASTER'S DEGREE

21 **Advanced Psychology.**

22 **General Anthropology.**

23 **History of Ethics.**

24 **History of Philosophy.**

25 **The Critical Philosophy of Kant.**

26 **Metaphysic.**

27 **Dialectic.**

28 **Logic.**

29 **Æsthetic.**

30 **Philosophy of Education.**

31 **History of Education.**

BIBLICAL LITERATURE

President RHEES

1 The Life and Teachings of Jesus. A general survey adapted for the student who is not contemplating special work in theology, yet so treated as to be introductory to professional study.

Omitted in 1906.

2 hours. II,¹ III.¹

2 The Life and Writings of Paul. An introduction to his personality and leading ideas; adapted for the general student.

Omitted in 1906.

2 hours. II,¹ III.¹

¹Credit is given for 4 hours on the completion of the work of the third term.

PHYSICAL EDUCATION

DOCTOR STROUD.

The work in this department is designed to conserve the health and quicken the mental powers of the students. The hygienic ends sought are: (1) The aid of physical function. (2) The development of form. (3) The correction of undeveloped or deformed parts. (4) The supply of recreation. The educative ends sought are: (1) The knowledge of gymnastic theory. (2) The development of muscular strength. (3) The perfecting of nervous control. (4) The increase of mental perception and acumen. (5) The cultivation of mental and moral self-control.

The educative work is graded and credit is given on the basis of general improvement.

Physical training is prescribed for all Freshmen and Sophomores, and for special students during the first two years of attendance in the college. Each student is subject to a thorough physical examination before entering upon the

work of the gymnasium, and may be required to take such special individual exercises as the Physical Director deems necessary. The work with the Freshman class is introduced by a course of lectures on the physiology of exercise.

THE HISTORY OF ART

Doctor DENIO

1 **Art in Belgium and Holland.** Architecture, sculpture, and painting in these countries from the mediæval period to the present time; fully illustrated by photographs and other prints.

3 hours. II.
2 **Public Lectures.** Fifteen lectures on the history of Art in Holland and Belgium, profusely illustrated by stereopticon. On Wednesday afternoons at 4:30 beginning on January 10, 1906. Open to the general public.

Honors and Prizes

Honor Standing. Students who maintain an average standing of at least eighty-five per cent. during the preceding year (in the case of Freshmen during the first term) will be given honor standing, and so long as they maintain that standing, such students will be eligible to elect the maximum number of hours (see page 55), to compete for prizes (see below), and to register for departmental honors.

Departmental Honors. Departmental honors will be given at graduation to students who have taken at least fifteen hours of elective work in the department chosen, *five hours of which shall not count for a degree*; an average standing of 90 per cent. must be attained in all the work of the department *and an average of 85 per cent. in the whole course.*

In departments which do not offer the number of electives requisite for departmental honors the following system of grouping will be permitted:

Rhetoric with English.

Astronomy with Physics.

Political Economy with History.

Philology with Greek or Latin.

Prizes. Students who wish to compete for the following prizes must have secured honor standing (see above) unless an exception is specially stated in the description of the prize.

Work done in competition for undergraduate prizes will be estimated in terms of hours of credit.

Competitors for any prize, who fail to secure the prize, may have such prize work to the extent of five hours

counted towards departmental honors in the department to which the prize belongs.

Students who wish to compete for a prize must apply for permission not later than the close of the first term.

GRADUATE SCHOLARSHIPS

The Sherman Scholarship. The sum of five thousand dollars was given by the late Isaac Sherman, of New York, as a permanent endowment for a graduate scholarship in the department of Political Economy. This scholarship is granted to that man in the Senior class, who, being properly qualified, passes the best examination upon some selected work on a subject in economics, in the French or the German language. The successful competitor will receive one hundred dollars at graduation, and an additional sum of one hundred and fifty dollars if, within two years after graduation, he shall present a satisfactory thesis upon some specially assigned topic in political economy.

The subject for the present year (1905-1906) is: Baudrillart, *Les Publicistes Modernes*. Gibbins, *Industry in England*.

The competitors for The Sherman Scholarship will be assigned work equivalent to a five hour course for one term.

The Townsend Scholarship. The sum of five thousand dollars has been received from Mr. Charles John Townsend, A. M., of Lockport, N. Y., a member of the class of 1879, as an endowment for a graduate scholarship in the department of Political History and Constitutional Law, given by him in memory of his father, the late John Pomeroy Townsend, LL. D., who founded the scholarship in 1876, and supported it by annual payments for many years. This scholarship is

granted to that man in the Senior class, who, being properly qualified, passes the best examination upon some selected work on a subject in politics or constitutional law, in the German or the French language. The successful competitor will receive one hundred dollars at graduation, and an additional sum of one hundred and fifty dollars if, within two years after graduation, he shall present a satisfactory thesis upon some specially assigned topic in politics or constitutional law.

The subject for the present year (1905-1906) is: Bluntschli, *Geschichte des Allgemeinen Statsrechts*. Dunning, *A History of Political Theories from Luther to Montesquieu*.

In the case of both these scholarships, the merits of the undergraduate competitive examinations and of the graduate theses are determined by an examining committee of experts not connected with the Faculty.

Competitors for The Townsend Scholarship will be assigned work equivalent to a five hour course for one term.

TWO SCHOLARSHIPS IN BIOLOGY

Two scholarships, named respectively **The Edward Mott Moore Scholarship** and **The Chester Dewey Scholarship**, have been established in biology. They are of the annual value of fifty dollars and yield free tuition at the summer session (six weeks) of the Marine Biological Laboratory at Wood's Hole, Mass. They will be awarded for proficiency in biological work to students who will avail themselves of the privilege granted. Applicants for these scholarships must have completed courses 1 to 6 inclusive, or the equivalent, in the department of Biology.

UNDERGRADUATE PRIZES

The Davis Prizes. The sum of one thousand dollars was given by the late Honorable Isaac Davis, LL. D., of Worcester, Mass., the annual income of which is expended in purchasing two gold medals of unequal value, to be given to the two men in the graduating class whose orations on Commencement day shall exhibit respectively the first and second grades of excellence in thought, composition, and delivery combined. The awards will be of the value of twenty-five and fifteen dollars respectively.

The Hull Prize. The Reverend Robert B. Hull, D. D., of Brooklyn, of the class of 1871, has given the sum of one thousand dollars to endow a prize which will be given to the man in each Senior class who shall present the best essay upon a subject selected by the Faculty. The essay submitted must not exceed 3000 words in length. The award will be forty dollars.

The subject for the present year is: The Waverley Novels in Comparison with Recent Historical Fiction.

Work in competition for The Hull Prize is estimated equivalent to a one hour course for one term.

The Dewey Prizes. From the income of a bequest of five hundred dollars by the Reverend E. R. Beadle, D. D., of Philadelphia, a pupil and friend of the late Chester Dewey, Professor of the Natural Sciences in this college from 1850 to 1868, two prizes, one of fifteen dollars and one of ten dollars, are given for the best exercises in declamation by men selected from the Sophomore class on the basis of oratorical ability.

The Stoddard Prizes. The University has received from the late Professor John F. Stoddard the sum of fifteen hundred dollars, to endow two prizes of equal value, one to

be awarded to the man in each graduating class who shall pass the best examination on some text book work in mathematics, and the other to the man in the same class who shall present the best thesis on some topic assigned for special investigation in physics.

In Mathematics. Seniors who compete for this prize must have completed nine courses in mathematics. The subject for the present year is: Differential Geometry. The award will be thirty dollars.

Competitors for The Stoddard Prize in mathematics will be assigned work equivalent to a five hour course for one term.

In Physics. Seniors who compete for this prize must have completed Physics 1, 2, 3, 4 and one term of Physics 5. Registration must be made at the beginning of the autumn term of the Senior year, and the experimental work must be finished not later than the close of the winter term. Fee \$7.00.

The subject for the present year is: Reflection of Light at the Surface of a Transparent Medium. The award will be thirty dollars.

Competitors for The Stoddard Prize in physics will be assigned work equivalent to a five hour course for two terms.

The Elizabeth M. Anderson Prize. Colonel William Wallace Gilbert, of the class of 1861, and Mr. Charles M. Williams, of the class of 1871, have given eight hundred dollars to endow an annual prize, as a memorial to the wife of President Anderson; the prize to be awarded under conditions prescribed by the Faculty, to the member of the Senior class who shall show the highest proficiency in some subject connected with art.

For the present year, the requirement for competition is a thesis of not less than 2000 words on The Development of Landscape during Mediæval and Modern Times in European and American Paintings. The award will be thirty-two dollars.

Work in competition for The Elizabeth M. Anderson Prize is estimated equivalent to a one hour course for one term.

The Colonial Dames Prize. The Society of Colonial Dames of the State of New York established in the year 1899 an annual prize of fifty dollars, with a silver medal, to be awarded to the member of the Senior or Junior class who presents the best essay upon an assigned subject connected with American colonial history.

The subject prescribed for the present year is: Art in America during the Colonial Period.

Competitors for The Colonial Dames Prize will be assigned work equivalent to a two hour course for one term.

The Alling Prizes. Mr. Joseph T. Alling, of the class of 1876, has offered two prizes, one of thirty dollars and one of twenty dollars, for excellence in public debate. The contestants are to be drawn from the men in the Senior and Junior classes on the basis of superior work in the class room debates.

The N. B. Ellison Prize. Mr. F. T. Ellison of the class of 1873 and Mrs. C. H. Ocumpaugh, of Rochester, have given the sum of twelve hundred dollars to endow a prize in memory of their father, the late N. B. Ellison of Rochester. The donors have expressed the wish that the prize be awarded to the man in the Senior class who submits the best essay on a subject in political science. The subject for the present year is: The Political Philosophy of John Locke and its Influence upon the Political Thought of France. The award will be forty-eight dollars.

Competitors for The N. B. Ellison Prize will be assigned work equivalent to a one hour course for one term.

The Susan B. Anthony Prize. The New York State Woman Suffrage Association has offered for the present year (1905-1906) the sum of twenty-five dollars, to which Miss Susan B. Anthony has added twenty-five dollars, to provide two prizes, one of thirty dollars and one of twenty dollars, for the best essays on the subject The Practical Workings of Woman Suffrage. The competition is open for students in the Senior and Junior classes.

Competitors for this prize will be assigned work equivalent to a one hour course for one term.

The Whittlesey Prize. Mr. Mills Whittlesey of the class of 1880 has offered the sum of fifty dollars to be awarded as a prize or as prizes for excellence in contributions to the student paper, The Campus. For the year 1905-1906 two prizes are offered, a first prize of thirty dollars and a second prize of twenty dollars, for the two regular contributors to The Campus who have shown the highest excellence in contributions to the journalistic as distinguished from the literary departments of the paper.

The Scholarship Prize for Athletes. Mr. Grant Hugh Browne and Mr. William Collins Sheppard of the class of 1885 have offered a prize of fifty dollars to be awarded at Commencement to that one of the athletic representatives of the college whose scholarship standing for the year has been the highest.

All writings submitted in competition for prizes, except examination papers, are to be in printed or typewritten form on paper of thesis size (8 x 10½ inches), bound according to the Librarian's specifications, and they will be deposited in the college library. Each thesis or essay must have a table of contents and contain a list of authorities consulted.

Saturday Classes

Teachers in Rochester and the neighboring towns may have opportunity to do college work on Saturday mornings, and receive college credit for the work accomplished. Admission to these classes will be subject to the regular entrance requirements (see pages 35-47). The fee for each course is \$6.00 a term in addition to a small laboratory fee in courses which demand laboratory work. Persons who are interested may learn from the Registrar what courses are to be offered for a given term.

The following are formally registered for these classes at present:

Jessie R. Campbell, A. B., Rochester.

Ruth Crippen, Rochester.

Nicholas Lee, Churchville.

Margaret T. McMahon, Rochester.

Hattie C. Mink, Rochester.

Mary E. Preston, A. B., Rochester.

Wallace W. Rayfield, Webster.

Edith Wright, Webster.

Marion E. Wright, A. B., Rochester.

Elsie M. Yawger, Rochester.

General Regulations

Terms and Vacations. The college year is divided into three terms, dating from Commencement day, which falls on the third Wednesday in June of each year. The first term begins in September on Thursday, thirteen weeks after the Commencement day. The first term closes on the 21st of December, unless that date falls on Saturday or Sunday, in which case the term closes on the Monday before Christmas. The second term begins on January 3rd, unless that date falls on Friday, Saturday, Sunday or Monday, in which case the term will begin on the first Tuesday of January; the term ends on the third Wednesday of March. The third term begins on Thursday of the following week, and extends to the third Wednesday of June. The dates of the beginning and close of the several terms and recesses will be found in the calendar (pages 154, 155).

Lectures and Recitations. A printed schedule of the exercises for each term is published four weeks before the close of the preceding term. Each student is expected to have at least three daily exercises during the five days in the week. No student is permitted to take, exclusive of gymnasium work, less than ten hours a week, nor more than twenty-two hours a week in any one term.

Permission to take advance work amounting to twenty, twenty-one, or twenty-two hours a week, exclusive of gymnasium appointments, in any term will be given only to students who have attained honor standing (see page 121) for the preceding term, whose attendance in the chapel and the gymnasium is satisfactory, and whose outside engagements warrant it.

The number of hours a week mentioned in this section does not include the appointments for physical culture prescribed for Freshmen and Sophomores.

Selection of Studies. On or before a specified date before the end of each term (see calendar, pages 154, 155) each student is required to consult with his class officer concerning the studies to be taken in the next term. The class officer will furnish a registration card on which the student will indicate all the proposed studies, both prescribed and elective. This card must be submitted to each instructor with whom the student wishes to elect work, and the instructor's endorsement must be entered on the card. The student must then return the card to the class officer for his approval. The schedule of studies thus approved will be required of the student for the term indicated.* Students who neglect to register their courses by the prescribed date for any term, or who desire to change registration after that date, will be permitted to enter such delayed or altered registration, only on presenting to the class officer a receipt from the Registrar stating that a delayed registration fee of one dollar has been paid.

Attendance. Students who are absent from the first appointment in any term in the courses for which they are enrolled, will be admitted to such courses only on presenting to the instructor a certificate from the Registrar stating that a special enrollment fee of one dollar has been paid. To provide for absences during the term, which seem to the student unavoidable, an allowance will be made in each course equal to the number of hours a week assigned to that course. If a student's absences in any course are greater than this allowance, for each absence in excess his term standing will be reduced by one-half of one per cent. in four and five hour courses, one per cent. in two and three hour courses, and two

per cent. in one hour courses. Moreover, to recognize the benefit gained by regular attendance, if a student's absences in any course are less than the number allowed, for each avoidance of an allowed absence his standing for that course will be increased by the percentages named above, provided that the resultant standing may in no case exceed 100 per cent. A student who is tardy at any exercise will be so marked in the instructor's record, and three such tardy marks in a given subject will be reckoned as one absence in that subject.

Examinations, Conditions, and Failure. The value of a student's work in any course is determined by the instructor in that course by means of both recitations and a final examination. Students who are "conditioned" in the work of any course are entitled to one delinquent examination for the purpose of removing the condition. This examination must be taken at the time prescribed by the instructor, and not later than the first Saturday of the second term following that in which the condition was incurred. Students who "fail" in the work of any course are required to take the subject again with the next lower class, and they are ranked as members of the next lower class until they have passed in the delinquent study. A conditioned student who fails to remove his condition in the appointed delinquent examination will be classed as having "failed" in the course, and will be required to take the subject with the next class. In case a regular student is charged at any time with delinquencies in courses amounting to 15 hours of credit, that student's connection with the college is thereby terminated.

For other regulations governing special students, see page 73.

Religious Exercises

It is the aim of the Faculty, in connection with the discipline of the intellect, to inculcate a reverent spirit, a pure morality, and those truths and duties concerning which all Christians are agreed; and the students are expected during their residence at the college to be regular in attendance in the church of their choice.

A short religious service is conducted at the chapel, at 10:15 a. m. daily excepting Saturday and Sunday. The students are expected to attend unless specially excused by the President.

Two voluntary Bible classes for men and one for women meet once a week through the year. President Rhee conducts a class in the Life of Paul for the men of the Senior and Junior classes; Mr. Minchin conducts a class in the Life of Christ for the men of the Sophomore and Freshman classes; and the Rev. Paul Moore Strayer conducts a class in the Message of the Books for the women students.

Prizes Awarded in 1905

CLASS OF 1903.

The Townsend Scholarship, graduate award—for a thesis upon The Organization of the Hebrew Commonwealth and its Historical Significance, to Harold Stanley Stewart. Committee of Award: Reverend Nelson Mil-lard, D. D.

CLASS OF 1905.

The Townsend Scholarship, undergraduate award—for an examination upon Donnat, La Politique Expéri-mentale, to Albert Perlea VanDusen. Committee of Award: V. J. Ruppert, J. U. D., and the Reverend Max Landsberg, Ph. D.

The Sherman Scholarship, undergraduate award—for an examination upon Inama-Sternegg, Deutsche Wirt-schaftsgeschichte in den lätzten Jahrhunderten des Mittel-altern, to Theodore Augustus Zornow. Committee of Award: V. J. Ruppert, J. U. D., and the Reverend Max Landsberg, Ph. D.

The Elizabeth M. Anderson Prize—for a thesis on The Classic Element in Christian Art, to Miss Jane Ernisse Crowe. Committee of Award: Doctor Elizabeth H. Denio.

The Colonial Dames Prize—for an essay on William Penn and the Persecution of the Quakers in America, to Miss Helen Rogers. Committee of Award: Charles Mulford Rob-inson, A. M., and George D. Hale, A. M.

The Alling Prizes—in debate, to the Senior Class repre-sented by Arthur Lawrence Stewart, Avery Morgan Meech, and Edward Ernest Morris, for excellence in team-work.

and to Chester Frederic Craigie of the Junior Class for individual excellence. Committee of Award: William Hastings Nichols, 1874, Francis S. Macomber, 1889, and Homer D. Brookins, 1880.

The N. B. Ellison Prize—for an essay upon The Political Philosophy of Hobbes, its Character and Influence, to Alphonse Joseph Sigl. Committee of Award: Henry W. Conklin, 1879.

The Hull Prize—for an essay on Tennyson's Conception of the Perfectibility of Man, to Merritt Way Haynes. Committee of Award: Professor John F. Genung, Ph. D., of Amherst College.

The Stoddard Prize in Mathematics—for a thesis upon The Theory of Curve Tracing, to Louis Albert Pultz. Committee of Award: Professor Thomas Cushing Esty and Charles William Watkeys, A. M.

The Stoddard Prize in Physics—for a thesis upon A Test of Photographic Lenses for Optical Faults, to Thur Smith. Committee of Award: Mr. Joseph Hammele.

The Chester Dewey Scholarship in Biology—to Charles Orson Beaman.

The Edward Mott Moore Scholarship in Biology—to Jasper Heman Wright.

The Davis Prizes—for excellence in oratory at Commencement, the award covering thought, expression, and delivery combined—first prize to Dana Boardman Hellings; second prize, to Theodore Augustus Zornow. Committee of Award: The Reverend Reuben E. Burton, 1880, George Reynolds Stearns, M. D., 1875, and Frank Edward Sickles, 1880.

CLASS OF 1906

The Susan B. Anthony Prize—for an essay on The Rights and Privileges of Women as Citizens, to Miss Lillian

Louise Crafts. Committee of Award: George H. Smith, 1881.

CLASS OF 1907.

The Dewey Prizes to members of the Sophomore Class—for excellence in declamation, the first prize to Joseph Crombie Napier, the second prize to Edgar Flاندreau VanBuskirk, and honorable mention to Benjamin Goldstein. Committee of Award: Principals Olin H. Burritt, 1890, Ernest Belknap, and H. D. Bartlett.

HONORABLE MENTION AWARDED IN 1905.

Charles Orson Beaman	in Biology
George Burt Caudle	in Physics
Dana Boardman Hellings	in English
Louis Albert Pultz	in Mathematics
Arthur Raynsford	in Physics and Mathematics
Thur Smith	in Geology and Mathematics
Jasper Heman Wright	in Biology
Theodore Augustus Zornow	in German
Carolyn Lucy Adams	in German
Jane Ernisse Crowe	in English
Helen Rogers	in English and Latin
Florence Abbie Southworth	in Greek
Mayme Frances Smith	in Mathematics
Alvalyn Eunice Woodward	in Biology

Organizations of the Alumni

ASSOCIATED ALUMNI OF THE UNIVERSITY OF ROCHESTER

President, The Rev. Norman Fox, D. D., 1855.

Vice-President, Alexander B. Lamberton, 1866.

Secretary, Eugene C. Denton, 1887.

Treasurer, Francis S. Macomber, 1889.

BOARD OF MANAGERS

Rev. Norman Fox,	} <i>Ex officio.</i>
Eugene C. Denton,	
Francis Macomber,	

Hiram R. Wood, 1891.	Term expires 1906.
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William T. Plumb, 1891.	Term expires 1906.
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George M. Forbes, 1878.	Term expires 1907.
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Herbert W. Bramley, 1890.	Term expires 1907.
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Herbert J. Menzie, 1886.	Term expires 1908.
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Harold C. Kimball, 1882.	Term expires 1908.
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EXECUTIVE COMMITTEE

Nelson E. Spencer, 1893.	Joseph R. Webster, 1894.
Curtis Fitz Simons, 1893.	

LOCAL ASSOCIATION OF NEW YORK CITY

President, Hon. Waldo G. Morse, [1881.]

First Vice-President, Grant Hugh Browne, 1885.

Second Vice-President, John Hall Deane, A. M., 1866.

Third Vice-President, Hon. William Russell Willcox, A. M.,
LL. B., [1889].

Secretary, James Albert Hamilton, A. M., LL. B., 1898,
Pelham Manor, N. Y.

Treasurer, Nelson Curtice Holt, M. D., 1875,
195 Lenox Avenue, New York City.

Chorister, F. Leon Shelp, 1900.

Executive Committee	{	Hon. William R. Willcox, A. M., LL. B., [1889].
		Hon. Theron G. Strong, 1868.
		Professor Albert C. Hale, PH. D., 1869.
		Professor Roger W. Swetland, 1894.
		Professor Homer C. Bristol, A. M., 1874.
		F. Leon Shelp, 1900.

THE CENTRAL ALUMNI ASSOCIATION, CHICAGO AND THE MIDDLE WEST.

President, Professor George Albert Coe, D. D., 1884.

Vice-President, Edward Rawson Gilmore, 1889.

Secretary, Mors O. Slocum, 1889,
259 South Clinton St., Chicago, Ill.

Treasurer, William Richardson Vosburg, 1876.

THE BUFFALO ASSOCIATION.

President, Principal Frank S. Fosdick, A. M., 1872.

Vice-President, Horace F. Taylor, 1893.

Secretary, Edward C. Hard, 1894.

Treasurer, William H. Thornton, A. M., M. D., 1879.

SCHOOLMASTERS' CLUB OF THE UNIVERSITY OF ROCHESTER

President, Professor Frederick Douglass Losey, A. M., 1891,
Syracuse.

Secretary, Principal Herbert Seeley Weet, A. M., 1900,
Rochester.

The club meets annually in Syracuse in connection with
the gathering of the Associated Academic Principals.

Degrees Conferred in 1905

DOCTOR OF DIVINITY, HONORARY

John Hart Scott, 1871.

William Frederick Faber, 1880.

MASTER OF ARTS, HONORARY

Charles Mulford Robinson, 1891.

MASTER OF ARTS

Charles William Watkeys, 1901.

In Mathematics. Thesis subject: Theory of Curve Tracing.

Ruth Hogarth Dennis, 1903.

In English. Thesis subject: The History and Development of
Dramatic Criticism.

Evelyn O'Connor, 1903.

In English. Thesis subject: A suggestion as to a Possible
Source of Shakspeare's Culture.

MASTER OF SCIENCE

Walter George Parkes, 1900.

In Geology and Chemistry. Thesis subject: Mineralogy and
Chemistry of Arsenic.

BACHELOR OF ARTS, IN COURSE

Leon Jermain Brace

George Burt Caudle

Albert B. Clark

Trafton Milford Crandall

Thomas Dransfield, Jr.

Le Roy Halbert

Merritt Way Haynes

Dana Boardman Hellings

Thomas Thackeray Horton

Edward Huntington Jacobs

Raymond Coon Keople

Irving Nelson Kohler

Avery Morgan Meech

Edward Ernest Morris

Howard Charles Page	Carolyn Lucy Adams
Louis Albert Pultz	Mary Almira Clackner
Arthur Raynsford	Jane Ernisse Crowe
Alphonse Joseph Sigl	Florence Margaret Levis
Arthur Lawrence Stewart	Helen Rogers
Albert Perlea Van Dusen	Gertrude Salisbury
Frederick Weik	Hallie Irene Shearer
Edmund Worthington Westervelt	Florence Abbie Southworth

BACHELOR OF PHILOSOPHY, IN COURSE

Herbert Benton Arthur	Theodore Augustus Zornow
Walter Riley Beckley	May Ethel Rosenthal
Chester Garfield Gilbert	Grace Elizabeth Salter
William Janowsky	Mayme Frances Smith
Hiram Olsan	Alvalyn Eunice Woodward

BACHELOR OF SCIENCE, IN COURSE

Louis Jonathan Bailey	Thur Smith
Charles Orson Beaman	Carroll Arthur Sutherland
George Nelson Sage	Jasper Heman Wright

Graduate Students

IN COURSES FOR THE MASTER'S DEGREES

- Francis Stephens Bernauer, A. B., 1903, - *Saginaw, Mich.*
History, Philosophy.
- George Halcott Chadwick, Ph. B., 1904. - 65 Prince St.
Geology, Philosophy.
- Israel Brooks Clark, A. B., 1903. - - 41 Vick Park B.
History, Philosophy.
- *John Mason Davidson, A. B., - - - 340 Oxford St.
Chemistry.
- Ray Henry Hart, A. B., 1902, - - - *Newark, N. J.*
English, History.
- Kenneth Samuel Howard, B. S., 1904, - 20 Selye Terrace.
Chemistry, Geology.
- Charles Eugene Ross, A. B., 1901, - - 20 Rowley St.
Philosophy.
- Alphonse Joseph Sigl, A. B., 1905, - 149 Portland Ave.
English, Philosophy.
- Joseph Henry Sinclair, A. B., 1902, - *Washington, D. C.*
Geology.
- *Arthur Lawrence Stewart, A. B., 1905, - 42 Prince St.
Mathematics, Chemistry.
- Alice Harriet Colby, A. B., 1904, - - - 39 Rutgers St.
German, Romance Languages, English.
- Johanna Margaret Hopeman, Ph. B., 1903,
German, Philosophy. 39 Lake View Park.
- Ellen Margaret White, A. B., Vassar, 1904, - 83 East Ave.
Biology, Geology.

* Not a candidate for the Master's degree.

The Senior Class

(1906)

Name	Course	Residence	City Address
George Latta Barrus,	Sc.	<i>Charlotte.</i>	
Philip Bernhardt,	Cl.	<i>Rochester,</i>	91 Kelly St.
Frederick Betz,	Cl.	<i>Rochester,</i>	160 Grand Ave.
H. Willard Bosworth,	Sc.	<i>Rochester,</i>	41 Prince St.
Albert Bowen,	Cl.	<i>Rochester,</i>	221 Oxford St.
Edwin Roy Bowerman,	Sc.	<i>Fairport,</i>	65 Prince St.
Laurence Bacon Brink,	Cl.	<i>Manhattan, Kansas,</i>	
			35 Strathallan Pk.
Walter Austin Calihan,	Cl.	<i>Rochester,</i>	106 Jones St.
Edgar Jacob Fisher,	Cl.	<i>Rochester,</i>	21 Edmonds St.
William Rice Foster,	Cl.	<i>Rochester,</i>	153 S. Goodman St.
Prentiss Bailey Gilbert,	Ph.	<i>Rochester,</i>	41 Prince St.
Raymond Hardy,	Cl.	<i>Andover,</i>	21 East Ave.
Charles Lacy Harris,	Cl.	<i>Fairport,</i>	35 Strathallan Pk.
William Hawley Higbie,	Cl.	<i>Chili,</i>	35 Strathallan Pk.
Carr Gilman Horn,	Sc.	<i>Acton, Me.,</i>	385 Platt St.
Henry Judson Humpstone,	Cl.	<i>Rochester,</i>	35 Strathallan Pk.
Embry Crittenden McDowell,	Cl.	<i>Rochester,</i>	432 Court St.
Jacque Louis Meyers,	Cl.	<i>Rochester,</i>	76 Brunswick St.
Walter Steefel Meyers,	Cl.	<i>Rochester,</i>	76 Brunswick St.
Charles Peters Oliver,	Ph.	<i>Rochester,</i>	58½ Charlotte St.
Clarence Melvin Platt,	Ph.	<i>Rochester,</i>	356 Oxford St.
Arthur Rathjen,	Sc.	<i>Rochester,</i>	111 River St.
Lewis Garlick Reynolds,	Ph.	<i>Rochester,</i>	98 Asbury St.
Ancel St. John,	Ph.	<i>Brooklyn,</i>	65 Prince St.
Robert Osmond Saunders,	Cl.	<i>Friendship,</i>	35 Strathallan Pk.

William Albert Searle,	Ph.	<i>Rochester,</i>	466 Clinton Ave. N.
Harry John Simmelink,	Sc.	<i>Rochester,</i>	309 Hudson Ave.
Charles Arthur Simpson,	Ph.	<i>Rochester,</i>	118 Columbia Ave.
Fred Joseph Slater,	Ph.	<i>Charlotte.</i>	
Martin F. Tiernan,	Cl.	<i>Charlotte,</i>	96 Park Ave.
Harry Swain Todd,	Ph.	<i>Spencerport.</i>	
Douglas Edwin Wilder,	Ph.	<i>Rochester,</i>	276 Monroe Ave.
Lewis Mitchell Wilson,	Cl.	<i>Macedon,</i>	35 Strathallan Pk.

Mary Ina Coe,	Ph.	<i>Yates,</i>	567 Averill Ave.
Lillian Louise Crafts,	Cl.	<i>Rochester,</i>	97 Glendale Pk.
Grace Elizabeth Curtis,	Ph.	<i>Hilton,</i>	14 Arlington St.
Herma Maud Harkness,	Sc.	<i>Rochester,</i>	557 Dewey Ave.
Ethel McKay Kates,	Ph.	<i>Rochester,</i>	15 Hart St.
Blanche Eunice King,	Ph.	<i>Canandaigua.</i>	
Ednah Kathryn Levis,	Cl.	<i>Rochester,</i>	185 Fulton Ave.
Leah McParlin,	Ph.	<i>Rochester,</i>	97 Prince St.
Clara Townsend Moseley,	Ph.	<i>Bergen,</i>	49 Vick Park A.
Charlotte Stoddard Stone,	Ph.	<i>Rochester,</i>	108 Highland Ave.
Helen Elizabeth Thomas,	Ph.	<i>Silver Creek,</i>	8 N. Goodman St.
Minerva Claire Williams,	Cl.	<i>Rochester,</i>	45 Brighton St.

The Junior Class

(1907)

Name	Course	Residence	City Address
Howard Walrath Allen,	Sc.	<i>Rochester,</i>	65 Prince St.
Wilbur Wilcox Bancroft,	Ph.	<i>Fairport.</i>	
Howard Phillips Barss,	Cl.	<i>Rochester,</i>	70 Meigs St.
Garnet Alexander Bedell,	Cl.	<i>Fairport.</i>	
William Curtis Clark,	Sc.	<i>Rochester,</i>	6 Portsmouth Ter.
Herman Michaels Cohn,	Ph.	<i>Rochester,</i>	61 Westminster Rd.
Jay Edward Dutcher,	Cl.	<i>Rochester,</i>	59 Ontario St.
Jay Wharton Fay,	Cl.	<i>Rochester,</i>	15 Mathews St.
Herbert Ernest Fowler,	Sc.	<i>Rochester,</i>	78 Dewey Ave.
Harold Benton Gilbert,	Sc.	<i>Avon,</i>	96 Park Ave.
Benjamin Goldstein,	Ph.	<i>Rochester,</i>	56 Vienna St.
Ralph Elmer Harmon,	Cl.	<i>Clifton,</i>	65 Prince St.
Charles David Heaton,	Cl.	<i>Rochester,</i>	52 Brighton St.
Walter Clifford Hurd,	Cl.	<i>Deep River, Conn.,</i>	
			721 University Ave.
Ward Delazon Jordan,	Sc.	<i>Friendship,</i>	35 Strathallan Pk.
Carl Frederick William Kaelber,			
	Cl.	<i>Rochester,</i>	587 University Ave.
William Edward Kinney,	Cl.	<i>Rochester,</i>	64 Lorimer St.
Max Isidore Klein,	Ph.	<i>Rochester,</i>	36 Hanover St.
Harry Carl Michaels,	Cl.	<i>Rochester,</i>	272 East Ave.
Alvah Strong Miller,	Cl.	<i>Rochester,</i>	12 Reynolds St.
Theodore Augustus Miller,	Cl.	<i>Rochester,</i>	12 Reynolds St.
Joseph Crombie Napier,	Cl.	<i>Rochester,</i>	241 Sanford St.
Frederick Francis O'Connor,			
	Sc.	<i>Rochester,</i>	158 St. Paul St.

Carl Griff Palmer,	Cl.	<i>Rochester,</i>	111 S. Union St.
George Truman Palmer,	Sc.	<i>Palmyra,</i>	47 S. Union St.
Francis Lamont Peirce,	Ph.	<i>Spencerport.</i>	
Floyd Orton Reed,	Sc.	<i>Center Lisle,</i>	97 East Ave.
Wallace Robert Reid,	Ph.	<i>No. Tonawanda,</i>	65 Prince St.
William Cornelius Roades,	Cl.	<i>Rochester,</i>	62 Rowley St.
Hugh Alexander Smith, Jr.,	Cl.	<i>Brockport,</i>	65 Prince St.
Harold Osborn Stewart,	Sc.	<i>Rochester,</i>	37 Clinton Ave. S.
George Timothy Sullivan,	Cl.	<i>Rochester,</i>	184 N. Union St.
Mark Wallace Swetland,	Cl.	<i>Hightstown, N. J.,</i>	41 Birch Crescent.
Louis Frank Talbot,	Cl.	<i>Rochester,</i>	357 Jay St.
Earl Wesley Taylor,	Cl.	<i>Cohoes,</i>	4 Vine St.
Edgar George Thomssen,	Sc.	<i>Rochester,</i>	445 Joseph Ave.
Edgar Flandreau Van Buskirk,	Cl.	<i>Brooklyn,</i>	285 Alexander St.
Robert John Walkinshaw,	Ph.	<i>No. Tonawanda,</i>	65 Prince St.
Myron James Walter,	Sc.	<i>Clifton Springs,</i>	35 Strathallan Pk.
Roger Hale Wellington,	Ph.	<i>Rochester,</i>	20 Argyle St.
Nathaniel George West,	Cl.	<i>Rochester,</i>	466 Garson Ave.
Earl Gibson White,	Ph.	<i>Phelps,</i>	35 Strathallan Pk.
Bertha May Adams,	Cl.	<i>Fairport.</i>	
Elizabeth Alice Butler,	Cl.	<i>Rochester,</i>	89 Warner St.
Clara Bessie Crittenden,	Ph.	<i>Rochester,</i>	73 Costar St.
Helena Abigail Fulmer,	Cl.	<i>Lima.</i>	
Amy Gazena Hardick,	Cl.	<i>Fairport.</i>	
Lucy Camille Higbie,	Cl.	<i>Rochester,</i>	150 Park Ave.
Marion Melville,	Ph.	<i>Rochester,</i>	83 Glendale Pk.
Enid Elvira Morris,	Cl.	<i>Lincoln,</i>	362 University Ave.
Bessie Florence Pettis,	Ph.	<i>Rochester,</i>	73 Glendale Pk.
Ethel Rogers,	Cl.	<i>Rochester,</i>	1 Arlington St.
Florence Russell,	Ph.	<i>Rochester,</i>	2 Argyle St.

The Sophomore Class

(1908)

Name	Course	Residence	City Address
Harold Edward Akerly,	Sc.	<i>Rochester,</i>	13 Amherst St.
Arthur Howe Allen,	Sc.	<i>Honeoye Falls,</i>	394 West Ave.
Roy David Anthony,	Sc.	<i>Rochester,</i>	358 West Ave.
Ernest Franklin Barker,	Sc.	<i>Rochester,</i>	56 Hamilton St.
Hiram Leonard Barker, Jr.,	Ph.	<i>Rochester,</i>	280 Monroe Ave.
Harold de Blois Barss,	Cl.	<i>Rochester,</i>	70 Meigs St.
Stephen Leon Bidwell,	Cl.	<i>Rochester,</i>	73 Kenwood Ave.
Harry Bloom,	Ph.	<i>Rochester,</i>	79 Chatham St.
Edwin Hinchman Brooks,	Sc.	<i>Rochester,</i>	52 Rowley St.
Walter Rollin Brooks,	Ph.	<i>Rochester,</i>	343 West Ave.
John Edwin Burr,	Cl.	<i>Rochester,</i>	80 Flint St.
Oliver Warren Case,	Cl.	<i>Rochester,</i>	73 Richmond St.
Walter Henry Cassebeer,	Sc.	<i>Rochester,</i>	769 St. Paul St.
Delwin D. Chapin, Jr.,	Ph.	<i>Harrison Valley, Pa.,</i>	65 Prince St.
Leslie Marsland Conly,	Ph.	<i>Brooklyn,</i>	41 Prince St.
Bayard Thomas DeMallie,	Ph.	<i>Rochester,</i>	39 Berkeley St.
Harry Packer Dinkey,	Cl.	<i>Rochester,</i>	14 Vick Park B.
Raymond Bruce Eddy,	Ph.	<i>Ontario Center,</i>	173 Grand Ave.
John Denison Fowler,	Cl.	<i>Rochester,</i>	19 Thayer St.
Thomas James Fulton,	Cl.	<i>Rochester,</i>	48 Rosedale St.
Arthur Samuel Hamilton, Jr.,	Sc.	<i>Rochester,</i>	71 S. Washington St.
Louis Jacobowitz,	Ph.	<i>Rochester,</i>	156 Delevan St.
George Hanes Joy,	Sc.	<i>Rochester,</i>	66 College Ave.
Roy David Kinney,	Ph.	<i>Belfast,</i>	217 Merriman St.

Charles Frederick Lauer,	Cl.	<i>Rochester,</i>	19 Meigs St.
Fred Raymond Lewis,	Ph.	<i>Charlotte.</i>	
Charles Darius Marsh,	Cl.	<i>Spencerport.</i>	
Gregory James Martin,	Ph.	<i>Middletown,</i>	71 Charlotte St.
Charles Edmund Meulendyke,			
	Sc.	<i>Rochester,</i>	11 Upton Pk.
George William Morris,	Cl.	<i>Rochester,</i>	146 S. Goodman St.
Arthur Thomas Pammenter,			
	Ph.	<i>Irondequoit.</i>	
Robert Francis Payiour,	Sc.	<i>Rochester,</i>	537 Averill Ave.
Samuel Porter,	Cl.	<i>Elba,</i>	133 Plymouth Ave.
Carleton Elderkin Power,	Sc.	<i>Rochester,</i>	29 Thayer St.
Dean Todd Pryor,	Ph.	<i>Rochester,</i>	50 Gorsline St.
Warrant Pryor,	Ph.	<i>Rochester,</i>	50 Gorsline St.
Edward Hayes Sawers,	Sc.	<i>Rochester,</i>	548 Lake Ave.
Max Schweid,	Cl.	<i>Rochester,</i>	359 Alexander St.
Seward Dwight Smith,	Sc.	<i>Chili Station.</i>	
Howard John Steere,	Ph.	<i>Oxford,</i>	41 Prince St.
Norman Hamilton Stewart,			
	Cl.	<i>Rochester,</i>	42 Prince St.
Harry Cecil Taylor,	Ph.	<i>Rochester,</i>	13 Bingham St.
James Joseph Tighe,	Ph.	<i>Avon,</i>	82 Danforth St.
Arthur Fuller Truex,	Sc.	<i>Rochester,</i>	28 N. Union St.
Andrew Jackson Warner, 2nd,			
	Cl.	<i>Rochester,</i>	109 Troup St.
Samuel Young Whitehouse,			
	Cl.	<i>Rochester,</i>	99 Alexander St.
Maurice Alton Wilder,	Sc.	<i>Bergen,</i>	253 Monroe Ave.
Leland Foster Wood,	Cl.	<i>Albion,</i>	35 Strathallan Pk.
Hiram Wooden,	Cl.	<i>Rochester,</i>	131 Frank St.
<hr/>			
Clara Belle Abbott,	Cl.	<i>Rochester,</i>	104 Post St.
Margaret Tyson Applegarth,			
	Cl.	<i>Rochester,</i>	216 Culver Rd.

Alma Harriet Austin,	Ph.	<i>Rochester,</i>	10 Arlington St.
Ethel Josephine Bills,	Cl.	<i>Rochester,</i>	206 Scio St.
Ollie Antoinette Braggins,	Cl.	<i>Rochester,</i>	
		cor. Edgerton and Milburn Sts.	
Emily Gertrude Crump,	Ph.	<i>Pittsford.</i>	
Dorothy Dennis,	Cl.	<i>Rochester,</i>	15 Upton Pk.
Carolyn Lillian Emerson,	Ph.	<i>Rochester,</i>	36 Vick Park B.
Grace Elizabeth Fowler,	Cl.	<i>Rochester,</i>	19 Thayer St.
Ruth Edith Galloway,	Cl.	<i>Rochester,</i>	45 Vick Park B.
Harriet May Hadley,	Cl.	<i>Rochester,</i>	84 Reynolds St.
Grace Lawrence Hall,	Ph.	<i>Walworth,</i>	442 Hayward Ave.
Iva Mary Hall,	Ph.	<i>Walworth,</i>	442 Hayward Ave.
Carolyn Myrtle Heffer,	Cl.	<i>Irondequoit.</i>	
Francoise Helen Klein,	Ph.	<i>Rochester,</i>	726 Jay St.
Mary Esther Lane,	Ph.	<i>Webster.</i>	
Ruth Tillotson Miller,	Ph.	<i>Scottsville,</i>	10 Birch Crescent.
Florence Eloine Mosher,	Ph.	<i>Rochester,</i>	325 West Ave.
Marion Dix Mosher,	Ph.	<i>Rochester,</i>	325 West Ave.
Alicia May Morey,	Cl.	<i>Fairport.</i>	
Jessie Naomi Owler,	Ph.	<i>Rochester,</i>	18 Evergreen St.
Helen Marguerite Persons,	Ph.	<i>Rochester,</i>	79 S. Goodman St.
Marian Salisbury,	Cl.	<i>Rochester,</i>	49 Vick Park A.
Leila Belle Smith,	Cl.	<i>Rochester,</i>	231 Fulton Ave.
Lillian Stoneburg,	Cl.	<i>Rochester,</i>	38 Ardmore St.
Ruth Tappan,	Ph.	<i>Sherman,</i>	131 Harvard St.
Harrie Justine Tiffany,	Ph.	<i>Rochester,</i>	165 Gibbs St.
Ethel Alice Turner,	Ph.	<i>S. Livonia,</i>	239 Westminster Rd.

The Freshman Class

(1909)

Name	Course	Residence	City Address
Sol Aiole,	Sc.	<i>Rochester,</i>	78 Nassau St.
Sydney Alling,	Sc.	<i>Rochester,</i>	139 Maryland St.
Raymond F. Baker,	Cl.	<i>Irondequoit.</i>	
Roy Will Boss,	Cl.	<i>Rochester,</i>	4 Council St.
Carlton Fellows Bown,	Sc.	<i>Penfield,</i>	65 Prince St.
Harvard DeHart Castle,	Sc.	<i>Rochester,</i>	425 Oxford St.
Francis Stuart Chapin,	Sc.	<i>Rochester,</i>	583 West Ave.
Kash Roberts Chase,	Sc.	<i>Henrietta,</i>	21 Birr St.
Harold Linsley Crafts,	Sc.	<i>Rochester,</i>	97 Glendale Pk.
Ernest Willard Dennis,	Cl.	<i>Rochester,</i>	15 Upton Pk.
Edward John Dykstra,	Sc.	<i>Rochester,</i>	115 Lyndhurst St.
Pliny Baxter Fiske,	Sc.	<i>Byron,</i>	41 Birch Crescent.
Edgar Martin Flint,	Sc.	<i>Rochester,</i>	14 Avondale Pk.
Lemuel Hibbard Foote,	Ph.	<i>Rochester,</i>	2 Emma St.
James Henry Fowle,	Sc.	<i>Bridgeport, Conn.,</i>	35 Strathallan Pk.
Raymond James Fowler,	Sc.	<i>Rochester,</i>	78 Dewey Ave.
Albert William Giles,	Ph.	<i>Rochester,</i>	97 Bartlett St.
Edward Harry Gilman,	Cl.	<i>Rochester,</i>	505 West Ave.
Charles True Goodsell,	Ph.	<i>Medina,</i>	66 Meigs St.
Harvey Wilbur Graves,	Ph.	<i>Rochester,</i>	594 West Ave.
Herbert Emerson Hanford,	Ph.	<i>Rochester,</i>	525 University Ave.
William Cobb Hanford,	Ph.	<i>Rochester,</i>	525 University Ave.
Samuel Park Harman, Jr.,	Sc.	<i>Rochester,</i>	3 Schell Pl.
Leo Dann Hayes,	Ph.	<i>Watkins,</i>	41 Birch Crescent.
Roy Eugene Hills,	Ph.	<i>Corfu,</i>	253 Monroe Ave.
Alonzo Barton Holcombe,	Ph.	<i>West Brighton.</i>	

Harry Laurence Horton,	Sc.	<i>Rochester,</i>	63 Caledonia Ave.
George Wallace Hubbell,	Ph.	<i>Rochester,</i>	20 Tremont St.
Richard Pell Hunt,	Ph.	<i>Rochester,</i>	145 S. Goodman St.
Abram Nicholls Jones,	Cl.	<i>Rochester,</i>	87 S. Union St.
Frank Allen Jones	Sc.	<i>Montour Falls,</i>	41 Birch Crescent.
Albert D. Kaiser,	Sc.	<i>Rochester,</i>	13 Tracy St.
Harry Norman Kenyon,	Cl.	<i>Rochester,</i>	65 Prince St.
George Gustav Kleindinst,	Cl.	<i>Buffalo,</i>	41 Charlotte St.
Jacob Samuel Kominsky,	Sc.	<i>Rochester,</i>	159 Chatham St.
Julius Lucius Kuck,	Cl.	<i>St. Paul, Minn.,</i>	246 Alexander St.
Matthew Delbert Lawless,	Ph.	<i>Rochester,</i>	23 Oxford St.
Abraham Lebendig,	Sc.	<i>Rochester,</i>	150 Joseph Ave.
Fred Maecherlein,	Sc.	<i>Rochester,</i>	522 Child St.
Harry Albert May,	Ph.	<i>Rochester,</i>	102 Woodward St.
Frank Howard McChesney,	Sc.	<i>Rochester,</i>	136 Fulton Ave.
Charles Hazelius Miller,	Cl.	<i>Rochester,</i>	12 Reynolds St.
William P. Munger,	Sc.	<i>Rochester,</i>	21 Baldwin St.
Norman Nairn,	Ph.	<i>Troy,</i>	37 Birch Crescent.
George Franklin Pond,	Sc.	<i>Rochester,</i>	20 Arch St.
Joseph Posner,	Ph.	<i>Rochester,</i>	57 Nassau St.
George Winkler Ramaker,	Sc.	<i>Rochester,</i>	11 Tracy St.
Howard Franklin Roberts,	Sc.	<i>Warsaw,</i>	37 Birch Crescent.
Harry Alphonso Robinson,	Sc.	<i>Johnstown,</i>	35 Strathallan Pk.
Joseph Jacob Rosenthal,	Sc.	<i>Rochester,</i>	66 Adams St.
Leon Drake Rumsey,	Sc.	<i>Oswayo, Pa.,</i>	41 Birch Crescent.
Leon James Russell,	Ph.	<i>Rome, Pa.,</i>	41 Birch Crescent.
Edmund Parmenter Schermerhorn,	Sc.	<i>Penfield,</i>	
Harry Hall Servis,	Sc.	<i>Rochester,</i>	301 Lexington Ave.

William Alexander Shepherd,

	Ph.	<i>Pultneyville,</i>	179 Pearl St.
Franklin Hiram Smith,	Sc.	<i>Rochester,</i>	10 Augustine St.
James Powers Snell,	Cl.	<i>Rochester,</i>	77 Avenue D.
Raymond Averill Taylor,	Sc.	<i>Rochester,</i>	8 Clifton St.
Walter Lebyard Todd,	Sc.	<i>Rochester,</i>	111 Park Ave.
Fred Eugene VanVechten,	Cl.	<i>Rochester,</i>	37 Hudson Ave.
Edwin W Whitmarsh,	Sc.	<i>Rochester,</i>	14 Moulson Ave.
Edwin Wilder,	Sc.	<i>Rochester,</i>	276 Monroe Ave.
Augustus Williams,	Ph.	<i>Warsaw,</i>	35 Strathallan Pk.
Cornelius R Wright,	Ph.	<i>Rochester,</i>	36 S. Clinton St.

Mary A Cook,	Ph.	<i>Rochester,</i>	360 Mt. Vernon Ave.
Pearl Harris Esten,	Ph.	<i>Fairport.</i>	
Vivien Jean Forbes,	Ph.	<i>Rochester,</i>	235 Dartmouth St.
Bessie Leonora Hill,	Ph.	<i>Brighton.</i>	
Frances Richards Henderson,			

	Cl.	<i>Rochester,</i>	57 Brighton St.
Lydia MacNassa Hunt,	Cl.	<i>Rochester,</i>	75 Glendale Pk.
Claribel Ruth Jennings,	Cl.	<i>Rochester,</i>	44 Rowley St.
Florence Maude Lane,	Ph.	<i>Victor,</i>	206 Alexander St.
Laura Lucile Lawless,	Cl.	<i>Rochester,</i>	23 Oxford St.
Grace Burrell McCartney,	Ph.	<i>Rochester,</i>	205 Adams St.
Marion Meulendyke,	Ph.	<i>Rochester,</i>	128 Avenue B.
Mary Adaline Moulthrop,	Cl.	<i>Rochester,</i>	40 Phelps Ave.
Esther Dorsey Nairn,	Cl.	<i>Troy,</i>	37 Birch Crescent.
Edna Louise Parker,	Ph.	<i>Rochester,</i>	315 Troup St.
Arley Mehitable Rider,	Ph.	<i>Milwaukee, Wis.,</i>	37 Park Ave.
Sarah Minnie Rilling,	Ph.	<i>Penn Yan,</i>	18½ Birch Crescent.
Erna May Ross,	Cl.	<i>Rochester,</i>	360 Hayward Ave.
Esther Sheridan,	Ph.	<i>Rochester,</i>	42 Asbury St.
Isla Slocum,	Cl.	<i>Rochester,</i>	58 Brighton St.
Frederica Warner,	Ph.	<i>Rochester,</i>	18 Argyle St.
Carrie Diantha Wheeldon,	Ph.	<i>Rochester,</i>	9 Montrose St.

Special Students

Name	Year	Residence	City Address
Percy Alvin Benedict	II	<i>Pultneyville,</i>	445 Alexander St.
James Lewis Blackmer,	I	<i>Silver Springs,</i>	558 Averill Ave.
Frederic McGuire Buckley,	I	<i>Boonville,</i>	96 Park Ave.
Arthur Rowland Chapman,	II	<i>Rochester,</i>	52 Tremont St.
Wallace Gilbert Collyer,	I	<i>Rochester,</i>	14 Atlantic Ave.
Chester Frederic Craigie,	IV	<i>Catskill,</i>	65 Prince St.
Leon Philetus Davis,	I	<i>Spencerport.</i>	
William Goff,	II	<i>Rochester,</i>	9 Franklin Sq.
Joseph Edward Harrington,	I	<i>Wakefield, Mass.,</i>	66 College Ave.
Curtis Danals Hart,	II	<i>Rochester,</i>	14 Sumner Pk.
Alfred LeGrand Kinter,	III	<i>Chili.</i>	
Lloyd Randolph Kneeland,	II	<i>Lyons,</i>	17 Joslyn Place.
Elmer George Koch,	II	<i>Rochester,</i>	579 University Ave.
John Herbert Levis,	I	<i>Rochester,</i>	185 Fulton Ave.
Lewis Enoch Munger,	II	<i>Holley,</i>	35 Strathallan Pk.
Joseph Augustine O'Connor,	I	<i>Rochester,</i>	104 Hamilton St.
Joseph Lewis O'Connor,	II	<i>Rochester,</i>	32 Jefferson St.
Leonard Charles Palmer,	I	<i>Elizabethtown,</i>	
			575 Mt. Hope Ave.
John Wilhelm Radu,	II	<i>No. Tonawanda,</i>	
			37 Birch Crescent.
William Cline Rugg,	II	<i>Victor,</i>	97 East Ave.
Christian John Schaeffer,	I	<i>Rochester,</i>	236 Sherman St.
Frank Burns Storey,	I	<i>Rochester,</i>	30 Hortense St.
George Lee Thompson,	I	<i>Rochester,</i>	10 Thayer St.
Paul Vincent,	I	<i>Paris, France,</i>	Trevor Hall.
Albert Vosburg,	III	<i>Charlotte,</i>	285 Alexander St.
John Frederick Warner,	I	<i>Rochester,</i>	29 George St.
Frank Edward Winter,	IV	<i>Rochester,</i>	96 Park Ave.

Katharene Blackford,	II	<i>Rochester,</i>	369 Alexander St.
Effie Helen Esson,	III	<i>Rochester,</i>	130 Woodward St.
Beulah Elizabeth Fuller,	II	<i>Rochester,</i>	83 Adams St.
Emma Culross Gibbons,	III	<i>Rochester,</i>	97 Ambrose St.
Blanche Marshall Griffith,	II	<i>Rochester,</i>	103 Park Ave.
Caroline Ruth Maddock,	I	<i>Rochester,</i>	156 Wellington Ave.
Isabel Stuart Mitchell,	IV	<i>Rochester,</i>	19 Clifton St.
Verna Frances Robinson,	II	<i>Rochester,</i>	173 Maryland St.
Madelon Dix Schuyler,	III	<i>Rochester,</i>	108 Highland Ave.
Mabell E. Stetson,	I	<i>Rochester,</i>	271 Meigs St.
Mrs. Lucy Evelyn Stockton,	I	<i>Rochester,</i>	355 Alexander St.
Susan Eleanor Taylor,	II	<i>Rochester,</i>	85 Caledonia Ave.

Summary.

	Men	Women	Total
Graduate Students	10	3	13
Seniors	33	12	45
Juniors	42	11	53
Sophomores	49	28	77
Freshmen	64	21	85
Special Students	27	12	39
	<hr/>	<hr/>	<hr/>
Totals	225	87	312

CANDIDATES FOR BACHELOR'S DEGREES

	Seniors	Juniors	Soph- omores	Fresh- men	Total
Classical	20	29	30	19	98
Philosophical ...	18	13	32	32	95
Scientific	7	11	15	34	67
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Totals ...	45	53	77	85	260

Calendar for 1906-1907

SPRING TERM—1906.

Instruction begins, - - -	Thursday, March 29.
Stated Faculty Meeting, - - -	Wednesday, April 4.
Latest date for paying term bills, -	Tuesday, April 10.
Latest date for presentation of Com- mencement orations, - - - }	Wednesday, April 11.
Stated Faculty Meeting, - - -	Wednesday, April 25.
Announcement of appointments for Commencement, - - - }	Thursday, April 26.
Latest date for presentation of Senior prize essays, - - - }	Thursday, April 26.
Stated Faculty Meeting, - - -	Wednesday, May 2.
Recess (Memorial Day), - - -	Wednesday, May 30.
Examination for the Stoddard Medal,	Monday, June 4.
Stated Faculty Meeting, - - -	Wednesday, June 6.
Latest date for registration of elec- tive studies for Autumn term,	Monday, June 11.
Term examinations, Wednesday to Saturday, - - - }	June 13-16.
Baccalaureate Sermon, - - -	Sunday, June 17.
Class Day, - - - - -	Monday, June 18.
Trustee Meeting, - - - -	Tuesday, June 19.
Phi Beta Kappa Business Meeting, -	Tuesday, June 19.
Alumni Business Meeting, - - -	Tuesday, June 19.
Oration before the Associated Alumni,	Tuesday, June 19.
Alumni Reunion, - - - -	Tuesday, June 19.
Commencement Exercises, - - -	Wednesday, June 20.
Alumni Dinner, - - - -	Wednesday, June 20.
President's Reception, - - - -	Wednesday, June 20.
Entrance examinations begin (see page 48), - - - }	Monday, June 25.

AUTUMN TERM

Entrance examinations and matricula- tion of new students (see page 49), - - - }	Tuesday and Wednes- day, September 18, 19.
Instruction begins, - - - -	Thursday, September 20.
Stated Faculty Meeting, - - -	Wednesday, Sept. 26.
Latest date for paying term bills, - -	Monday, October 1.

AUTUMN TERM.

Stated Faculty Meeting, - - -	Wednesday, October 3.
Recess (Election Day), - - -	Tuesday, Nov. 6.
Stated Faculty Meeting, - - -	Wednesday, November 7.
Latest date for presentation of Senior orations, - - - - }	Monday, November 20.
Thanksgiving recess, from the evening of Wednesday to the morning of Monday, begins, - - - }	Thursday, Nov. 29.
Stated Faculty Meeting, - - -	Wednesday, Dec. 5.
Latest date for registration of elective studies for Winter term, - }	Wednesday, Dec. 12.
Term examinations, Tuesday to Friday, - - - - }	December 18-21.

WINTER TERM—1907

Instruction begins, - - - -	Thursday, January 3.
Stated Faculty Meeting, - - -	Friday, January 4.
Latest date for registration of competitors for Senior prizes, - }	Monday, January 14.
Latest date for paying term bills, - - -	Tuesday, January 15.
Day of Prayer for Colleges, - - -	Thursday, January 31.
Stated Faculty Meeting, - - -	Wednesday, February 6.
Dewey Prize Declamations, - - -	Wednesday, Feb. 20.
Recess (Washington's Birthday), - - -	Friday, February 22.
Stated Faculty Meeting, - - -	Wednesday, March 6.
Latest date for registration of elective studies for Spring term, - }	Monday, March 11.
Term examinations, Saturday to Wednesday, - - - - }	March 18-20.

SPRING TERM

Instruction begins, - - - -	Thursday, March 28.
Stated Faculty Meeting, - - -	Wednesday, April 3.
Latest date for paying term bills, - - -	Wednesday, April 10.
Latest date for presentation of Commencement orations, - - - }	Wednesday, April 10.
Stated Faculty Meeting, - - -	Wednesday, April 24.
Announcement of appointments for Commencement, - - - - }	Thursday, April 25.
Latest date for presentation of Senior prize essays, - - - - }	Monday, May 7.
Recess (Memorial Day), - - - -	Thursday, May 30.
Examination for the Stoddard Medal, -	Monday, June 3.
Latest day for registration of elective studies for Autumn term, - }	Monday, June 3.
Stated Faculty Meeting, - - - -	Wednesday, June 5.

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THE effort is made each year to place a copy of the annual catalogue in the hands of every graduate. Any alumnus who does not receive the catalogue, or who changes his residence, will confer a favor by sending his address to the Registrar; and any person who can furnish obituary notices of deceased alumni or any information that may help to make or keep the Directory of the Alumni complete, or serve for future editions of the General Catalogue, will render a service by sending such information to the Registrar.

Alumni who are the authors of published books, or scientific or literary articles, will confer a favor by sending a copy of each to the Library.

On application to the Registrar, catalogues will be sent to students preparing for college.